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PROGRESS

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EDUCATION IN INDIA.

1907-1912.

VOL. I.-SIXTH QUINQUENNIAL REVIEW.

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EDUCATIONAL POLICY OF THE GOVERNMENT OF INDIA.

EDUCATIONAL POLICY OF THE GOVERNMENT OF INDIA

Resolution of the Government of India in the Department of Education dated Delhi the 21st February 1913

His Most Gracious Imperial Majesty the King Emperor in replying to Comprehensite the address of the Calcutta University on the 6th January 1912 said - systems of

It is my v sh that there may be spread over the land a network of schools and education e lies a from which will go f rth I yal and maily and usef I cut zens alle to hold their own in it dustries an I agriculture and all the vocations in life And it is my wish to that it is have seed ny Indian subjects may be brightened and their labour sweetened by the seed of northelps will all that follows in its train a linguist result of thought of country and of located and the deduction that my wash will be fulfilled and the cause of clucation in India will ver be very close to my heart

2 The Government of India have decided with the approval of the Contamo Chart

Correction slip to the Quinquennial Review of Education 1907- 1912

Para 316 first line -After 298 read 'per cent Para 604 twenty first line -Omit those in

Para 604 twenty fourth line For that read the number of those in

not be re-stated. They have been largely due to want of funds. Of late true perspec years there has been real progress in removing them. In the last decade tive the total expenditure from all sources on education has risen from 4 crores to nearly 71 crores The progress has been especially great since Lord Curzon's government introduced large measures of educational reform. In the last four years the number of those under instruction has increased from about 54 to 64 millions. Again the formerly cracking weight of examinations has been appreciably lightened a commencement has been made in the reform of university and college organisation and the grants from public funds to private institutions have almost doubled in the past nine years. These tacts speak for themselves. Nor must the great benefits which education has conferred on India be ignored or minimised Criticism based on im perfect a alogies is often unjust. It is not just, for instance, to compare Indian systems still for the most part in their intincy with the matured systems of the modern western world or to disregard the influences of social or, anisation and mentality Agun the common charge that the higher educa tion of India has been built up on a slender foundation of popular education and that its teaching agency is inefficient is one that might have been levelled against every country in Luroje at some jeriod of its history now passing through stages taken by other countries in their time

4 In the forefront of their policy the Government of India desire to Formisaon of place the formation of the character of the scholars and under graduates of another under tutton. In the formation of character the influence of home and the the main personality of the teacher play the larger part. There is reason to hope-an objective the light of acquired experience that increased educational facilities under

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- It is my wish that there by le spend on the lind a network of schools and education of light spends of the lind of light light
- 2 The Government of India have decided with the approval of the Secretary of State to assist Local Governments by means of large grants from imperial revenues as funds become available to extend comprehensive systems of education in the several provinces. Each province has its own educational system which has grown up under local conditions and become familiar to the people as a part of their general well being. In view of the diverse social conditions in India there cannot in practice be one set of regula tions and one rate of progress for the whole of India. Even within provinces there is scope for greater variety in types of institutions than exists to day The Government of India have no desire to centralise provincial sys tems or to attempt to introduce a superficial uniformity. Still less do they desire to deprive Local Governments of interest and initiative in education But it is important at intervals to review educational policy in India as a Principles bearing on education in its wider aspects and under modern conditions and conceptions on orientalia and on the special needs of the domiciled community were discussed at three important conferences of experts and representative non off cials held within the last two years principles are the basis of accepted policy. How far they can at any time find local application must be determined with reference to local conditions
- 3 The defects of educational systems in India are well known and need Tie need of Hey have been largely due to want of funds. Of late true perspecnot be re stated years there has been real progress in removing them. In the last decade* tive the total expenditure from all sources on education has risen from 4 ciores to nearly 71 crores The progress has been especially great since Lord Curzon s government introduced large measures of educational reform. In the last four years the number of those under instruction has increased from about by to 64 millions. Again the formerly crushing weight of examinations has been appreciably lightened a commencement has been made in the reform of university and college organisation and the grants from public funds to private institutions have almost doubled in the past nine years. These tacts speak for themselves. Nor must the great benefits which education has conferred on India be ignored or n inimied Criticism based on im perfect a alogies is often unjust. It is not just for instance to compare Indian systems still for the most part in their infancy with the matured systems of the modern western world or to disregard the influences of social organisation and mentality Again the common charge that the higher educa tion of India has been built up on a slender foundation of popular education and that its teaching agency is inefficient is one that might have been levelled against every country in Lurope at some Jeriod of its history. India is now passing through stages taken by other countries in their time
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better educational conditions will accelerate social reform spread femile adjustion and secure better teachers. Already much attention is being factor to religious and moral education in the widest sense of the term comparising that is direct religious and moral instruction and induced requestes such as monitorial or similar systems, tone social life traditions discipline the betterment of environment hygiene and that most important side of educa-

Direct religious and moral instruction

tion physical culture and organised recreation 5 The question of religious and moral instruction was discussed at a local conference held in Bombay and subsequently at the imperial conference held in Allahalaid in Lebruary 1911. Grave differences of of it ion emerced as to the possibility or advantage of introducing direct religious instruction into schools generally and apprehensions of difficulty in the working of any definite system were put forwar ! Doubts were also ex pressed as to the efficacy of direct moral instruction when divorced from religious sanctions. In the matter of moral teaching however, the diff culties are undoubtedly less than in the case of religious teaching. The payers laid before the conference indicate that not a little moral instruction is already given in the ordinary text books and in other ways. The Government of Bombay are engaged upon the preparation of a book containing moral illustrations which will be placed in the hands of teachers in order to a sist them in importing moral instruction. Excellent materials for e-hical teach ing are available in the Mahabharata the Ramiyana portions of Histiz Sadi Maulana Rumi and other classics in Sanskrit Arabic Persian and The Government of India while bound to maintain a position of complete neutrality in matters of religion ob erve that the most thoughtful minds in India lament the tendency of existing systems of education to develop the intellectual at the expense of the moral and religious faculties In September 1911 they invited Local Governments other than the Bond as Government to assemble local committees in order to consider the whole Such committees are still at work in some provinces. For the resent the Government of India must be content to watch experiments and eep the matter prominently in view | Enlightened opinion and accumulated experience will it is hoped provide a practical solution to what is unquestion ably the most important educational problem of the time

Indirect agen
cies, c g
l o tels sel ool
buildings
traditions etc

6 There has been real progress of late years in the provision of hostels In the last decade the numbers both of hostels and of resident male stidert have nearly doubled and now stand at over 2 200 and over 78 000 respectively The Government of India desire to see the hostel system develop until there is adequate residential accommodation attached to every college and secondary school in India But a hostel of itself will not achieve the desired end unless effective means are adopted for guiding students and assisting them in their work and in their recreation. Already in some first class institutions in the country admirable arrangements have been made on Luropean lines to secure the full benefits of the residential system. Again it is reassuring? that traditions are growing up that meetings of old boxs are leld that del ating and literary societies are becoming more common. All these re quire helt which will in many cases best be organised in connection with the Much has also been done of late to improve sel ool luildings but a large number of thoroughly unsuitable not to say mean squalid and in sanitary buildings still exist in India These will be replaced as funds permit by modern buildings designed upon sanitary lines and with a view to avoid overcrowding and to facilitate the maintenance of discipline Government of India hope that the time is not far distant when educational buildings will be distinguished as the most modern and con modious build ings in the locality and scholars in India will have the advantages in this respect of scholars in the west. The influence for good of clean well arranged buildings with the concomitant domestic discipline can scarcely be exaggerated

Hygiene

The claims of hygiene are paramount not only in the interests of the children themselves though these are all important but also as an object lesson to the rising generation. Hitherto want of funds and the apathy of the people have been responsible for the comparatively small attention paid to hygiene. In some province a simple course of instruction in hygiene is prescribed at some period of the school course but the lessons are often of too formal a type are not connected with the life of the pupil and fail to form his habits or to enlist his intelligence in after life in the struggle against discribe. In some areas there is a general inspection of school premises by a medical authority but it is believed that little is done for the individual in spection of school children and that medical advice has not always been enlisted in regard to the length of the school day the framing of curricula and such matters. The Government of India commend to Local Governments a thorough enquiry by a small committee of experts medical and educational into school and college hygiene. The scope of the enquiry will no doubt vary in different parts of India but the following seem to be important matters for investigation—

- (i) The condition of school houses hostels and other places where pupils reside from the point of view of sanitation
- (ii) The professional examination of building plans from the
- (ni) The introduction of a simple and more practical course of hygiene whether it should be a compulsory subject in the various schemes of school leaving certificates and whether it should be recommended to universities as part of their matriculation examination.
- (10) The inspection where possible of male scholars with special reference to infectious disease, evesight and malaria
- (v) The length of the school day home studies and the effect upon health of the present system of working for formal evanuations
- (vi) The requirements in the way of recreation grounds gardens gymnasia reading rooms common rooms etc
- (vii) The inspecting and administrating agency required the possibility of cooperation with existing organisations and the provision of funds.
- 8 Other cardinal principles of policy may here be stated-

Oll er cardinal

- (1) The steady raising of the standard of existing institutions shall principles of not be postponed to increasing their number when the new in pol cy stitutions crimot be efficient without a better trained and better paid teaching staff
- (2) The scheme of primary and secondary education for the average scholar should steadth, as trained teachers become available be diverted to more practical ends eg by means of manual training gardening out-door observation practical teaching of geography school excursions organised tours of instruction error.
- (3) Provision should be made for higher studies and research in India so that Indian students may have every facility for higher work without having to go abroad
- 9 The provision of facilities for research cannot be postponed. In Research almost every branch of science and the arts in philosophy history geography language literature conomics sociology medicine public health agricul ture biology geology botany and in all the sciences applied to industry not to particularise more closely there is a wide untrodden field awaiting research Among the essentials are good his arties laboratories and collections ample lessure and freedom in study systematic collaboration of professors and students in atmosphere engendered by the simultaneous working of many minds on numerous but interdependent branches of research. Only when they look the methods of research by which the knowledge they are to impart to secured and tested are teachers fully equipped for their work in the more advanced stages of education.
- 10 The propositions that illiteracy must be brolen down and that Privary primary education has in the present circumstances of India a predominant education

EDUCATIONAL POLICY OF THE GOVERNMENT OF INDIA

- in a graded service, and they should either be eligible for a pen sion or admitted to a provident fund
- (vn) No teachers should be called on to instruct more than 50 pupils. preferably the number should be 30 or 40 and it is desirable to have a separate teacher for each class or standard
- (riti) The continuation schools known as middle or secondary verna cular schools should be improved and multiplied
 - (12) Schools should be housed in sanitary and commodious but inex pensive buildings
- 12 While laying down these general principles the Government of India recognise that in regard to primary education conditions vary greatly in different provinces In the old province of Bengal for instance where there is already some sort of primary school for a little over every three square miles of the total area of the province the multiplication of schools may very well not be so urgent a problem as an increase in the attendance and an im provement in the qualifications of the teachers. In some parts of India at the present time no teacher in a primary school gets less than 12 iupees a In Burma all conditions are different and monastic schools are an important feature of the organisation. Different problems again present themselves where board schools and aided schools respectively are the basis of the system of primary education Nor must it be supposed that the policy laid down in these general terms for the immediate future limits the aspira tions of the Government of India or the Local Governments Indeed the Government of India hope that the day is not far distant when teachers in primary schools will receive considerably higher remuneration when all teachers will be trained and when it will be possible to introduce more modern and elastic methods in primary schools

13 Vernacular continuation schools are the only entrance to more ad Vernacular vanced study which does not demand acquaintance with a foreign language continuation and it is in them that competent teachers for primary schools will be pre-schools Technical and industrial progress also is likely to create numerous openings for men with a good vernacular education. In certain provinces owing to the popularity and cheapness of English education these institutions have declined But in the whole of India in the last decade the number of schools has increased from 2 135 to 2 666 and that of their scholars from over 177 000 to close on 257 000 The Government of India believe that these schools will become much more popular and useful when they are placed on a sound footing they also think that it would be an advantage if an idvanced vernacular course could be provided at selected centres for students desirous of becoming teachers in these continuation schools

14 In some provinces special classes have been opened in secondary English schools for scholars who have been through the whole course at a . vernacular continuation school in order to enable them to make up ground There is much experience to the effect that scholars who have been through a complete vernacular course are exceptionally efficient men The Government of India recommend arrangements on the above lines to all Local Governments and Administrations which have not already introduced them

15 It is the desire and hope of the Government of India to see in the Proposed not distant future some 91 000 primary public schools added to the 100 000 expansion which already exist for boys and to double the 41 millions of pupils who now receive instruction in them For purposes of present calculation a sum of Rs 375 per annum may be taken as a rough approximation of the pro bable average cost of maintenance of a primary board school This figure provides for two teachers one on Rs 15 and one on Rs 12 per month and Rs 4 per month for the purchase of books and stationery petty repairs prizes and for necessary contingencies. This is however only an average figure for the whole of India In India as a whole the average cost of a board or municipal school is at present Rs 315 per annum. In Bombay the average cost of a primary school under any kind of management is now about Rs 437 but this figure includes the cost of the higher classes which in some other provinces are classed as middle or secondary vernacular classes

Education of girls

- 16 The education of girls remains to be organised. In 1904 the Govern ment of India remarked that positive difficulties were encountered in this branch of education owing to the social customs of the people, but that as a for greater proportional impulse is imparted to the educational and moral tone of the people by the education of women than by the education of men liberal treatment had been accorded for girls in respect of scholarships and fees. This policy has been continued. I florts have been also made not without success to bring education through the a ency of governes es within the reach of purda Irdies to mere use the number of Irdies on the inspecting stall and to replace male by female to where in government and nided school? The number of girls under instruction has risen from 114 470 in 1001 02 to But the total number still remains insignificant in pro-564 363 in 1910 11 portion to the female population. The Government of India believe how ever that in certain areas if ere are indications of a swiftly growing dem i d for a more extensive education of girls
- 17 The immediate problem in the education of girls is one of social de The existing customs and ideas of po ed to the education of girls will require different handling in different parts of India. The Governor General in Council accordingly hesitates to by down general lines of policy which might hamper Local Covernments and Administration, and has preferred to call for schemes from each province but he commends the following principles for general consideration -
 - (a) The education of girls should be practical with reference to the position which they will fill in social life
 - (b) It should not seek to imitate the education suitable for boys nor chould it be dominated by examinations
 - (c) Special attention should be paid to hygiene and the surroundings of school life
 - (d) The services of women should be more freely enlisted for instruction and inspection and
 - (e) Continuity in inspection and control should be specially aimed at
 - 18 The difficulty of obtaining competent schoolmistre-ses is felt reutely in many parts of the country. In this connection it has been suggested that there is a large opening for women of a domiciled community who have a knowledge of the vernacular and who might be specially trained for the purpose

Secondary tion

- 19 The importance of secondary Figlish and in particular of high school English educa education is far reaching Secondary education of one grade or another is the basis of all professional or industrial training in India. The inferior out put of secondary schools invides colleges and technical institutions and hinders the development of higher education. At the Allahabad conference the directors of public instruction unanimously regarded the reform of secon 1 ary English schools as the most urgent of educational problems. The im protement of secondary English education has for some time occupied the attention of the Government of India and the Local Governments and it is hoped in the near future to remedy many defects of the present system
 - 20 In the last nine years the number of secondary schools has increased from nearly 5 500 to over 6 500 and the number of scholars from 622 000 to 900 000 The policy of government is to rely so far as possible on private enterprise in secondary education. This policy had down in the despatch of 1854 was restated and amplified by the Education Commission of 1892 which while doubtful as to how far the process of withdrawal on the part of government should be carried agreed that whatever degree of withdrawal from the direct provision of education might be found advisable there should be no relaxation of indirect but efficient control by the State The admixture of private management and State control was again emphasised in the resolu tion of 1904 To this policy the Government of India adhere It is dictated not by any belief in the inherent superiority of private over State manage ment but by preference for an established system and above all by the necessity of concentrating the direct energies of the State and the bulk of its

available resources upon the improvement and expansion of elementary education. The policy may be summarised as the encouragement of privately munged schools under suitable bodies maintained in efficiency by government inspection recognition and control, and by the aid of government funds.

21 Some idea of the extension of private enterprise may be gained by the reflection that of 3 502 high and middle English schools, only 256 are government institutions These figures, however cover many types of schools, from the most efficient to the least efficient Admirable schools have been and are maintained by missionaries and other bodies But the underlying idea of the grant system, the subvention of local organised effort, has not always been Schools of a money making type, ill housed, ill equipped, and maintained run on the cheapest lines, have in certain cases gained recognition and cluded the control of inspection Schools have spring into existence in destructive competition with neighbouring institutions Physical health has been neg lected and no provision has been made for suitable residential arrangements and play fields. Fee-rates have been lowered, competition and laxity in transfer have destroyed discipline, teachers have been employed on rates of Day insufficient to attract men capable of instructing or controlling their Above all, the grants in aid have from want of funds often been inadequate No fewer than 360 high schools with 80,247 pupils are in receipt of no grant at all, and are maintained at an average cost of less than half that of a government school, mainly by fee collections Especially do these conditions prevail in the area covered by the old provinces of Bengal and Eastern Bengal and Assam, a result due no doubt to the rapid extension of English education beyond the ability of the Local Governments to finance it In Bengal and Lastern Bengal the number of high schools is greater than in the rest of British India put together, and the cost of their maintenince to public funds is proportionatelly less than a third of the cost prevailing in other provinces A special enquiry showed that out of some 4700 teachers in privately managed high schools in these areas about 4 200 were in receipt of less than Rs 50 a month some 3 300 of less than Rs 30 a month while miny teachers of English and classical languages drew salaries that would not attract men to superior domestic service. The great variations in conditions in different parts of India point to the difficulty of making any but the most general statements about the results of private enterprise and the special measures that are needed to assist it to perform efficiently its work in the educational system

22 Subject to the necessities of variation in deference to local conditions Secondary
the policy of the Government of India in regard to secondary English schools English
18—

(1) To improve the few existing government schools by

General princi-

To improve the few existing government schools by
 (a) employing only graduates or trained teachers

(b) introducing a graded service for teachers of English with a minimum salary of Rs 40 per month and a irramium salary of Rs 400 per month

(c) providing proper hostel accommodation

(d) introducing a school course complete in itself with a staff sufficient to teach what may be called the modern side with special ittention to the development of an historical and a geographical sense

(e) introducing manual training and improving tienre teaching

(2) To increase largely the grants in ad in order that aided institutions may keep pace with the improvements in government schools on the above mentioned lines and to encourage the establishment of new aided institutions where necessary.

(3) To multiply and improve training colleges so that trained teachers may be available for public and private institutions

(4) To found government schools in such localities as may on a survey of local conditions and with due regard to economy of educational effort and expense, be proved to require them on examinations in secondary schools in England. They fail especially in India in that they eliminate the inspecting and teaching staff as factors in the system that they impose all responsibility upon a body acquainted but little (if at all) with the schools examined that they rely upon written papers which afford no searching test of intellect no test at all of character or general ability, and that they encourage crain

- 27 A combination of external and internal examinations is required The Government of India consider that in the case of a school recognised as qualified to present candidates for a school leaving certificate a record should be kept of the progress and conduct of each pupil in the highest classes of the school and that the inspector should enter his remarks upon these records at his visits and thus obtain some acquaintance with the career of each candidate during the two or three years before examination. These records together with the marks obtained by pupils at school tests would be valuable and would supplement a test conducted partly through written papers on the more important subjects of instruction but also orally and with regard to the pupils past career The oral examination would be conducted by the inspector in consultation with members of the staff A large increase in the superior inspecting staff would be required to work a system of this kind and safe guards would be n essary to protect teachers from undue influences the Government of India are prepared to assist with such grants as they may be able to afford the introduction of any such system which may be locally practicable The school leaving certificate systems of Madras and the United Provinces fulfil many of the requirements of the reform in view but their precise characteristics may not be found altogether suitable in other areas Some such system however as has been sketched above adapted to local con ditions would it is believed be most beneficial and do more than anything else to foster a system under which scholars would be trught to think for themselves instead of being made to memorize for examination purposes Next to the improvement of the pay and prospects of teachers which must accompany and even precede its introduction this is perhaps the most im portant reform required in secondary English education
- 28 No branch of education at present evokes greater public interest Technical and than technical and industrial instruction Considerable progress has been industrial made since 1904. Existing educational institutions have been overhauled and education equipped for new courses. Scholarships tenable in Europe and America have been established. Thanks to the generosity of the Tata family seconded by liberal financial and from the Government of India and His Highness the Miharaja of Mysore an Indian Institute of Science designed upon a large scale has been established at Bangalore it wis thrown open to pupils in 1911. The establishment of a Technological Institute at Campior for the chemistry of sugar manufacture and leather for textiles and for acids and alkalis has been sanctioned. Industrial schools have been opened an several provinces. Altogether the number of pupils from 50 to 215 and the number of pupils from 50 to 22 to 10 535.
- 29 The system of the huncal scholarships tentible abroad is still on trial Technical and a committee is examining the whole question in England. It is not exhibit and a committee is examining the whole question in England. It is not exhibit a living easy to arrange suitable courses of study and study abroad puts the pupils at a disadvantage in removing them from the environment of Indian trade conditions. From the information available it appears that of 7 is scholars sent abroad 36 have not returned to India while 18 are at present industrially employed in India.
- 30 The policy to be pursued in regard to technical and industrial educa Co-ordination tion was discussed at the Allahaba conference. The Government of India in technical accept the conclusions of that conference that progress should continue along education the lines generally followed hitherto viz that—
 - (1) the Indian Institute of Science which provides for research the application of new processes and the production of thoroughly trained managers should be developed as opportunity offers and become eventually a complete faculty of pure and applied science

Grants in-aid

23 The Government of India also desire that the grant in aid rules also desired the made more elastic so as to enable each school which is recognised as necessary and conforms to the prescribed standards of management and efficiency to obtain the special assistance which it requires in order to attain the fullest measure of utility. As larger grants become available and as the pay and the personnel of the teaching staff are improved it will be possible for the inspecting officer to concentrate his attention more and more upon the general quality of instruction. Full encouragement can then be given to improved and original method, of teaching and courses and gradually the grant-earning capacity of an institution will come to be judged on grounds of general efficiency and desert rather than by rigid rules of calculation.

Modern side

24. The introduction of a school course complete in itself and of a modern and practical character freed from the domination of the matriculation examination was recommended in the first instance by the Education Commission of 18.2 In some provinces and particularly in Madras real progresshas been made towards the accomplishment of this reform. The figures for 1991 02 and 1910 11 are —

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In other provinces the school final examination has not ver been established except for special purposes. The total number of candidates in 1910 11 for the school final examination or leaving certificate in all British provinces was 10 161 that of candidates for matriculation was 16 952.

Secondar j English school leaving certifi cate

- 2.) The principal objects of the school final examination are adaptability to the course of study and avoidance of craim. In those provinces in which a school final examination or school leaving certificate has not been introduced the Government of India desire that it should be instituted as soon as practic able. They suggest for the con ideration of Local Government and Administrations further developments of the system in regard to the character of the tests by which certificates are granted at the end of the school course. Before proceeding further however their restate and emphasise the three principles laid down by the Indian Universities. Commission in paragraph 170 of their report.
 - (1) The conduct of a school final or other school examination should be regarded as altogether outsid the functions of a university
 - (2) It would be of great benefit to the universities if the government would direct that the matriculation examination should not be accepted as a preliminant or full test for any post in government service. In cases where the matriculation examination qualifies for ulmission to a professional examination the school final examination is sludd be substituted for it.
 - (3) It would be advantageous if the school final examination could in the case of those bors who propose to follow a university career be made a sufficient test of fitness to enter the university. Failing this, the best arrangement would appear to be that the matriculation candidate should pass in certain subjects in the school final examination, and be extimed by the university with regard to any further requirements that may be deemed necessary.
 - 23 The value of external examination cannot be overlooked. It sets before the teacher a definite aim and it maintains a standard but the definite aim often unduly overshadows instruction and the standard is necessarily rarrow and in view of the larg number, that have to be examined multicon fine itself to mere examination adhorement without regard to mental development or reserval growth of character. On the other hand the drawbacks of external examinations are becomine more generally apparent and attent of was provincently drawn to them in the report of the Consultative Committee.

[·] School leaving cert. Scate

on examinations in secondary schools in England They fail especially in India, in that they eliminate the inspecting and teaching staff as factors in the system, that they impose all responsibility upon a body acquainted but little (if at all) with the schools examined, that they rely upon written papers which afford no searching test of intellect, no test at all of character or general ability, and that they encourage cram

- 27 A combination of external and internal examinations is required. The Government of India consider that in the case of a school recognised as qualified to present candidates for a school leaving certificate a record should be kept of the progress and conduct of each pupil in the highest classes of the school, and that the inspector should enter his remarks upon these records at his visits and thus obtain some acquaintance with the career of each candidate during the two or three years before examination. These records, together with the marks obtained by pupils at school tests, would be valuable and would supplement a test conducted partly through written papers on the more important subjects of instruction, but also orally and with regard to the pupil's past career The oral examination would be conducted by the inspec tor in consultation with members of the staff A large increase in the superior inspecting staff would be required to work a system of this kind and safeguards would be n essary to protect teachers from undue influences, the Government of India are prepared to assist, with such grants as they may be able to afford, the introduction of any such system which may be locally practicable The school leaving certificate systems of Madras and the United Provinces fulfil many of the requirements of the reform in view, but their precise characteristics may not be found altogether suitable in other areas Some such system, however, as has been sketched above adapted to local conditions, would it is believed, be most beneficial and do more than anything else to foster a system under which scholars would be taught to think for themselves instead of being made to memorize for examination purposes Next to the improvement of the pay and prospects of teachers which must accompany and even precede its introduction this is perhaps the most im portant reform required in secondary English education
- 28 No brunch of education at present evokes greater public interest Technical and that technical and industrial instruction Considerable progress has been industrial made since 1904. Existing educational institutions have been overhuided and education equipped for new courses. Scholarships tenable in Europe and America have been established. Thanks to the generosity of the Tata family, seconded by liberal financial sud from the Government of India and His Highness the Maharajia of Mysore, an Indian Institute of Science, designed upon a large scale has been established at Bangalore it was thrown open to pupils in 1911. The establishment of a Technological Institute at Cawmpore for the chemistry of sugar manufacture and leather, for textiles and for acids and alkalis, has been sanctioned. Industrial schools have been opened an several provinces. Altoerther the number of technical and industrial schools has risen since 1904.
- 29 The system of technical scholarships tenable abroad is still on trial, Technical always easy to arrange suitable courses of study, and study abroad puts the pupils at a disadvantage in removing them from the environment of Indian trade conditions. From the information available it appears that of 75 scholars sent abroad 36 have not returned to India while 18 are at present industrially employed in India

from 88 to 218 and the number of pupils from 5 072 to 10 535

- 30 The policy to be pursued in regard to technical and industrial educa Co ordination was discussed at the Allahabad conference. The Government of India in technical accept the conclusions of that conference that progress should continue along education the lines generally followed hitherto, ziz, that—
 - (i) the Indian Institute of Science which provides for research the application of new processes and the production of thoroughly triuned managers should be developed as opportunity offers and become eventually a complete faculty of pure and applied science,

able is to develop local museums with special regard to local interest and to concentrate on in interes of general interest in imperral museums. How to make museums more useful educationally and secure greater co-operation between museum authorities and educational authorities is a matter on which they have addressed Local Governments.

- 3. The present scheme of agricultural education originated under Lord Agricultural Curzon's government and is in fact only seven years old. I revious to the education year 1905 there was no central institution for research or teaching and such education as was then imparted in agriculture was represented by two colleges and three schools in a more or less decadent condition. Very few Indians then had any knowledge of science in its application to agriculture and still tower were capable of imparting such I nowledge to others. In the year 100) a comprehensive scheme was evolved under which arrangements were made both for the practical development of agriculture by government assist ance and also for teaching and research in a riculture and subjects connected A central institution for research and higher education was estab lished it Pusa. The existing schools and colleges were reconstituted im-proved and added to. I arms for experiments and demonstration were started and as time went on a change was effected in regard to agricultural education in its earlier stages. As now constituted the scheme of agricultural education has three main features viz (a) the provision of first class opportunities for the higher forms of teaching and research (b) collegiate education and (c) the improvement of eccondary and primary education
- 36 The institute at Pusi maintained at a cost of four laking a year has 37 Furice institute and Indians on its stiff engaged pixily in research pixily in post graduate education and the instruction through short courses of students or agriculturists in subjects which are not regularly treated in provincial institutions. There are now say provincial institutions continuing over 300 students and costing annually between five and six laking of right practices are some security provinces. In the ordinary elementary schools formal agricultures not taught but in some provinces a markedly agricultural colour is given to the general scheme of education.
- 37 Veterman research is carried on at the Breteriological Laboratory Vetermany at Mukesar. The scheme of vetermany colleges has been thoroughly reorgan education ised since 1994. There are now four such institutions with 511 students as well as a sel ool at Rangoon. These is stiff in some family well the growing demand for trained men.
- 38 The college at Dehra Dun has recently been improved and a Forestry re-circh institution has been established in connection with it. Indian education can here obtain an education in forestry which approximates to that ordinarily obtainable in Europe
- .39 Instruction in the western system of medicine is impuried in five Medical recognised colleges and fifteen recognised schools in British India. These education now annually produce between six and even hundred qualified medical practitioners. A medical registration Act has recently been passed for the presidency of Bombry under which passed students of such schools are entitled to become registered and a similar Act is now under consideration in the presidency of Hengal. In Calculit, there are four evel consistentiated medical chools, the diplomas of which are not recognised by the Government of India. Among recent developments may be mentioned the establishment of an Nary institute at Deha Dun and the formation of post graduate classes in connection with the Central Research Institute at Kassuli. These latter include training in historically and technique and preparation for special received, classes of practical instruction in malarial technique are also held time by at Amritisar under the officer in charge of the malarial bureau.
- 40 Other projects are engaging he attention of the Government of India including the institution of a post graduate course of tropical medicine. The practical want of such a course has long been felt, and the Government of India are now in communication with the Secretary of State regarding its establishment in the Medical College at Calcutta. The Calcutta University have expressed their willingness to co operate by instituting a diploma

to be open to graduates who have taken the course in tropical medicine. A scheme for a similar course in Bombay is also under consideration. The Government of Vidrus have submitted a scheme for the construction of a pathological institute and the appointment of a whole time professor of pathology with a view to improve the teaching of that subject at the Madrus Medical College. Other matters which are likely to come to the front at no distant date are the improvement of the Medical College at Labora and its separation from the school the improvement of the Dacca Medical School and the provision of facilities for medical training in the Central Provinces

41 The subject of medical education is one in which the Government of India are deeply interested. It is also one that may be expected to appeal with special force to private generosity A problem of particular importance is the inducement of ladies of the better classes to take employment in the medical profession and thus minister to the needs of the women whom the purda system still deters from seeking timely medical assistance of the hindrances hitherto has been that Indian ladies are able to obtain in struction only in men's colleges or in mixed clases. With a view to remedy ing this defect and commemorating the visit of the Queen Empress to Delhi certain of the princes and wealthy landowners in India have now come for ward with generous subscriptions in response to an appeal by Her Excellency Lady Hardinge who has decided to merge in this project her scheme for a school for training Indian nures and midwives The Government of India are considering proposals to found a women's medical college and nurses training school at Delhi with the help of a subvention from government Proposals are also under consideration for assisting the \ational Association for supplying female medical aid to the women of India (the Countess of Dufferin's Fund) to improve the position of their staff

Legal edu cation 42 There has been a marked development of legal education in the last decade. First it has been concentrated. In 1901 there were 35 institutions colleges classes and schools containing 2500 students. At the present time there are 27 institutions with a slightly larger number of students. The Madras and Bombay presidences. Barma and the Central Provinces each possess a single institution and in Bengal the instruction for the degree of brehelor of law has been restricted to certain colleges although other institutions are still recognised for the pleader-hip examination. A law college has been established on a liberal scale under the University of Calcutta. This concentration has resulted in greater efficiency and greater expenditure. In 1901 the cost to government was a little over Rs 7 7000 and the total cost was 1½ laklis. At present the cost to government is over Rs 45 000 and the total cost over Rs 253 000. Secondly the courses have been remodelled and in some cases lengthened. The Government of India will be glad to see an extension of the policy of concentration and improvement. They also desure to see suitable arrangements made for the residence and guidance of law students.

Commercial education 43 There has recently been a considerable expansion in commercial education. Nine rears ago there were ten colleges with less than 600 students and government spent less than 8x 4 000 upon these institutions. At the present time there are 26 institutions three of which are under the management of government the enrolment is now over 1 500 and the expenditure from provincial funds is over Rs 22 000. The standard attained in the majority of these institutions is not however high and the instruction given in them prepares for clerical duties in government and business offices rather than for the conduct of business itself. I project for a commercial college of a more advanced type in Bombay has been sanctioned and the Government of India are considering the question of making irrangements for organised study of the economic and allied sociological problems in India

University

44 Good work which the Government of India devire to acknowledge his been done under conditions of difficulty by the Indian universities and by common consent the Inversities 1 to 11904 ha had beneficial results but the condition of university education is still far from satisfactory in regard to residential arrangements control the course of study and the system of examination. The Government of India have aerordingly again reviewed the whole question of university education.

- 45 It is important to distinguish clearly on the one hand the federal Affiliating and university, in the strict sense, in which several colleges of approximately teaching uni equal standing separated by no excessive distance or marked local individual versities ity are grouped together as a university-and on the other hand the affiliating university of the Indian type which in its inception was merely an examining body, and, although limited as regards the area of its operations by the Act of 1904, has not been able to insist upon an identity of standard in the various institutions conjoined to it. The former of these types has in the past en joyed some popularity in the United Kingdom, but after experience it has been largely abandoned there, and the constituent colleges which were grouped together have for the most part become separate teaching univer sities, without power of combination with other institutions at a distance At present there are only 5 Indian universities for 185 arts and professional colleges in British India besides several institutions in Native States day is probably far distant when India will be able to dispense altogether with the affiliating university But it is necessary to restrict the area over which the affiliating universities have control by securing in the first instance a sepa rate university for each of the leading provinces in India and secondly to create new local teaching and residential universities within each of the provinces in harmony with the best modern opinion as to the right road to educational efficiency. The Government of India have decided to found a teaching and residential university at Dacca and they are prepared to sanction under certain conditions the establishment of similar universities at Aligarh and Benares and elsewhere as occasion may demand They also contemplate the establishment of universities at Rangoon, Patna and Nagpur It may be possible hereafter to sanction the conversion into local teaching universities, with power to confer degrees upon their own students, of those colleges which have shown the capacity to attract students from a distance and have at tained the requisite standard of efficiency. Only by experiment will it be found out what type or types of universities are best suited to the different parts of India
- 46 Simultaneously the Government of India desire to see teaching Higher studies flaculities developed at the seats of the crusting universities and corporate life encouraged, in order to promote higher study and create an atmosphere from which students will insible good social, moral and intellectual in fluences. They have already given grants and hope to give further grants hereafter to these ends. They trust that each university will soon build up a worthy, university hibrary, suitably housed and that higher studies in
- India will soon enjoy all the external conveniences of such work in the west
 47 In order to free the universities for higher work and more efficient
 control of colleges the Government of India are disposed to think it desir
 able (in provinces where this is not already the case) to place the preliminary
 recognition of schools for purposes of presenting candidates for matricula
 tion in the hands of the Local Governments and in case of Native States of
 the durbars concerned while leaving to the universities the power of selection
 from schools so recognised. The university has no machinery for carrying
 out this work and in most provinces already relies entirely on the departments
 of public instruction, which alone have the agency competent to inspect
 schools. As teaching and residential universities are developed the problem
 will become even more complex than it is at present. The question of amend
- 48 The Government of India hope that by these developments a great impetus will be given to higher studies throughout India and that Indian students of the future will be better equipped for the battle of life than the students of the present generation

ing the Universities Act will be separately considered

49 The chiefs' colleges advance in popularity. In developing charac Chiefs' colleges ten and imparting ideas of corporate life they are serving well the purpose for which they were founded. They are also attaining steadily increasing in tellectual efficiency, but the Committee of the Mayo College, Ajmer, have decided that it is necessary to increase the European staff. The post diploma course has on the whole worked satisfactorily and there is now a movement on foot to found a separate college for the students taking this course. Such a

bodies are eligible for these privileges. But it is necessary to extend the provision in the case of board and municipal eser-ints and still more in the cases of teachers of privately managed schools for the great majority of whom no such system exists. It is not possible to have a health moral at mosphere in any schools primary or secondary or at any college when the teacher is discontented and anyious about the future. The Governor Ceneral in Council desires that due provision for the liers in their old age should be made with the least possible delay. Local Governments have already been addressed upon this subject.

54 The defective state of the education of the domiciled com Education of munity has long been remarked. Many suggestions I are from time to time the domiciled been made for its improvement. An influential committee presided our community by Sir Robert Laidlaw is now collecting funds for the schools of all denominations except Romain Catholic schools. As in the case of secondary English education and for similar reasons the policy has been and is to rith on private enterprise guided by imprection and aided by grants from public funds. The Government of India Pare nover had any intention of changing their policy. But in order to discuss the will object on and other notification for the definite practical suggestions of reform they assembled an influential conference at Simila last July.

take the form of special institutions such as madratesa, hostels scholarships and special inspectors. The introduction of simple verticular courses into making his gone for to spread elementary education amongst Muhamm ideas, are certain parts of India. The whole question of Muhammadan education which was specially treated by the commission of 1852 is receiving the attention.

Irrental

tion of the Government of India 59 The Government of India attach great importance to the cultivation and improvement of oriental studies. There is increasing intenst through out India in her ancient civilisation and it is necessary to investigate that enviloration with the help of the medium of western methods of research and in relation to nodern ideas \ conference of distinguished orientalists lel l at Simla in July 1911 recommended the estal lishment of a central research institute on lines somewhat similar to those of I I cole I rançaise d I xtrime Orient at Hanor The question was discussed whether research could effect ently be carried on at the existing universities and the opinion predominated that it would be difficult to create the appropriate atmosphere of oriental study in those universities as at present constituted that it was desirable to have in one institution scholars working on different I ranches of the kindred subjects which comprise orientalis and that for reasons of economy it was preferable to start with one institute well equipped and possessing a first class The Government of India are inclined to adopt this view and to agree with the conference that the central institute should not be is lated that it should be of en to students from all parts of India an I that it should as far as possible could me its activities with those of the universities of India and different seats of learning. The object of the institute as apart from research is to provide Indians highly trained in original work who will enal! schools of Indian history and archaelogs to be founded hereafter prepare catalogues raisonnés of manuscripts develop museums and build up research in universities and colleges of the different provinces. Another object is to attract in the course of time fan lits and maulers of eminence to the institute and so to promote an interchange of the higher scholarship of both the old and the new school of orientalists throughout India. But before formu lating a definite scheme the Governor General in Council desires to consult Local Governments

Preservation of the ancient learning

- 59 While making provision for scholarship on modern lines the conference draw attention to the necessity of retaining separately the ancient and indigenous sistens of instruction. The world of scholarship this thought would uffer irreparable loss if the old typ of pinhi and maulei were to die out before their profound knowledge of their subjects had been made available to the world and encouragement rather than reform was needed to present such an unfortunate result. Certain proposals for encour agement were made at the conference riz
 - (a) grants to Sanskrit colleges madrasses tols pathshalas maktabs prongy k prangs and other indigenous institutions in order to secure better salaries for teachers and to enable students by fellowships or scholarships to carry their education to the high est point possil le
 - (b) the appointment of specially qualified inspectors in prientific
 - (c) the provision of posts for highly trained a indits and mauleis
 - (d) the grant of money rewards for oriental work

The Government of India hope to see it and adoption of measures that are practicable for the maintenance and furtherance of the ancient indigenous systems of learning and have called for proposals from the Local Governments to this end

Experts required

60 The functions of local bodies in regard to education generally and their relations with the departments of public instruction are under the consideration of the Government of India. But it is clear that if comprehen sive systems are to be introduced expert advice and control will be needed at every turn. The Government of India propose to examine in communication with Local Governments the organisation for education in each province and its readiness for expansion. A suggestion has been made that the director

of public instruction should be ex officio secretary to government Government of India agreeing with the great majority of the Local Govern ments are unable to accept this view which confuses the position of adminis trative and secretariat officers but they consider it necessary that the director of public instruction should have regular access to the head of the adminis tration or the member in charge of the portfolio of education The Govern ment of India wish generally to utilise to the full the support and enthusiasm of district officers and local bodies in the expansion and improvement of primary education but the large schemes which are now in contempla tion must be prepared with the co-operation and under the advice of experts A considerable strengthening of the superior inspecting staff including the appointment of special sts in science orientalia etc may be found necessary in most provinces In Madras an experienced officer in the education department has been placed on special duty for two years to assist the director of public instruction to prepare the scheme of expansion and improvement in that province and the Government of India would be glad to see a similar arrangement in all the major provinces should the Local Governments desire it

61 In the resolution of 1904 it was stated that arrangements would be intered ange of made for periodical meetings of the directors of public instruction in order size as that they might compare their experience of the results of different methods of work and discuss matters of special interest. The Government of India have already held general conferences at which the directors attended and they are convinced that periodical meetings of directors will be of great value. While each province has its own system it has much to learn from other provinces and when they meet directors get into touch with new ideas and gain the benefit of the experience obtained in other provinces. The Government of India are impressed with the necessity not only of exchange of views amongst experts but also of the advantages of studying experiments all over India on the spot—and in a letter of the 7th July 1911 they invited Local Governments to arrange that professors of arts and technical colleges and inspectors of schools should visit institutions outside the province where they are posted with a view to enlarging their experience

62 Such in broad outline are the present outlook and the general policy Conclusion for the near future of the Government of India. The main principles of this policy were forwarded to His Majesty's Secretary of State on the 28th September 1911 and parts of it have already been announced. It was how ever deemed convenient to defer the publication of a resolution until the whole field could be surveyed. This has now been done. The Governor General in Council trusts that the growing section of the Indian public which is interested in education will join in establishing under the guidance and with the help of government those quickening systems of education on which the best minds in India are now converging and on which the prospects of the rising generation depend He appeals with confidence to wealthy citizens throughout India to give of their abundance to the cause of education the foundation of scholarships the building of hostels schools colleges laboratories gymnasia swimming baths the piovision of playgrounds and other structural improvements in furthering the cause of modern scientific studies and especially of technical edication in gifts of prizes and equip ment the endowment of chairs and fellowships and the provision for re search of every kind there is a wide field and a noble opportunity for the exercise on modern lines of that charity and benevolence for which India has been renowned from ancient times

PROGRESS

OF

EDUCATION IN INDIA

1907-1912

PROGRESS

EDUCATION IN INDIA

1907-08-1911-12

OHAPTER I

INTRODUCTORY

The present review deals with education in an area of more than a Scope of the million square miles and among 255 millions of people. That is to say the review survey is confined to about two thirds of the sub-continent of India-the British provinces and most of the native States which are in political rela tions with them It does not treat of all of the latter nor with any of the States which are in direct political relations with the Government of India nor do the figures include those for the small areas of British territory ad ministered by political officers—though a short chapter is devoted to education in special areas. The map which fronts this volume illustrates the scope of the review Further details will be found in supplemental table

The period covered is from April the 1st 1907 to March the 31st 1912 It is important to bear in mind that a census of the population was made in The introduction of a new set of population figures is an element for which allowance must be made when statistics are compared

The report deals with provinces as they stood during the quinquennium On April the 1st 1912 Eastern Bengal was absorbed into the new presidency of Bengal Bihar and Orissa and Assam were constituted as new provinces

2 The compilation of a review of education in India offers certain diffi Plan of the culties Despite a certain similarity of organisation there is considerable remew variation of system in each province Wide racial differences complicate the problem. It is unsafe to make assertions of general application without

- specifying exceptions It is wearisome to drag the reader through a separate recital for each of ten territorial units Again the review must serve both tor the general render who asks only an outline and also for the student who requires details of some special aspect of education. At the risk of some repetition details regarding general college and school education the training of teachers etc. as well as full information about some of the courses grant in aid rules and like matters have been thrown into the form of appendices But this device can effect only a moderate curtailment of the appendicts that the threat the characteristics of provinces must still find mention and in chapters that deal with special education some description of individual institutions is inevitable. There is another difficulty. The review deals with different stages of instruction and also with education among different communities In these circumstances a certain amount of repetition is un avoidable since an incident or an institution demands notice in different
- 3 The form of previous reports has so far as possible been followed. In addition to the new appendices two new general tables have been introduced The number of supplemental tables has been cut down New chapters have been added on oriental studies and education in agencies etc. To place the reader in closer contact with the subject and as a substitute for descriptions

CHAPTER II EVOLUTION OF POLICY

I -Early policy

6 The British found not a system of education but a number of educa Pre British tional institutions, already established in the more settled parts of India system of There were sents of Sanskrit learning, as in Nadia, of Arabic learning, as at education Khanabad and Jaunpur There were less celebrated tols and madrassas And there were the elementary pathshalas and maktabs. An authentic account of these, as they existed in Bengal, has been left by Mr William Adam, originally a missionary, who was appointed government commissioner of education in 1835. He found that Burdwan, which he considered the most advanced district visited, contained only 931 schools (in 1910 it con tained 1,470 primary schools), and that in one district the percentage of to a chable children at school as ascertained over one of its thanas was 25 per There were no indigenous schools for girls Thirteen years before, the Madras presidency was believed to contain 12,498 schools The schools as shown in Mr Adam's reports, were miserable places. The house, if there was one, cost from Rs 12 to Rs 10. The teachers were poor and ignorant Acurly all were regularly paid in fees or in presents, but the average piofes sional income was found, in the districts visited, to be just short of Rs 3 a month The use of printed books was unknown The compositions taught inculcated a low standard of morality. As to discipline the school was a place of terror, if we may judge from the recognised methods of truancy and the deterrent nature of the punishments, one of which was to tie up the offender in a sack with nettles, a cat or "some other noisome creature" and roll it along the ground* These are the institutions on which the existing system has been largely grafted. The process still continues of converting the indigenous pathshala, the Koran school and the pongui kyaung into an efficient place of elementary instruction

7 The East India Company did not at first assume responsibility for Leginiugs of education Such improvements as were effected in elementary schools were education in the work of individuals (often, but not always, missionaries) and private British associations A few names stand forth—Bell and Lancaster, the originators period of the pupil teacher system, in Madras, Adam and David Hare (the latter a retired watch maker), in Bengal The efforts of these men and of bodies such as the Calcutta School Society were enthusiastic But the task was immense, and the originastions for tackling it were limited, scattered and lacking in cohesion

Similarly the beginnings of higher education were due to the efforts of individual otherals, enlightened Indians missionaires and sincessful adventurers. In 1782 Warren Hastings established, and thereafter for a time minitained, the Caleutta Madrassa for the study of Arabic and Persian. In 1791 Mr. Duncan, the Resident of Benares founded at that place a Sanskrit college, locally endowed and 'designed to cultivate the literature and religion of the Hindus." In the next year the Muhammadans of Delh and early in the inneteenth century the Borahs of Surat, built themselves Arabic colleges. A part of the fund established by the Peshwas for the support of pandits was utilised by the Commissioner of the Deccan to initiate and support a college at Poona for Hindu learning. These early foundations had in view the stidy of the oriental classics and the ancient lore. But the feeling of the enlightened—at least among the Hindus—soon declived itself in favour of the vernaculars, English and occidental thought and science. The Calcutta Vidvalaya was founded in 1817 by private effort for the education in English on English on English on English control in English on International English on the English of the control in English on the Paragraph of the control in English and occidental thought and science.

[&]quot;Adam's Reports on Vernacular Education in Bengal and Bil ar he the Reverend J Long pages 10 156 and elsewhere also The Calcutta Reviow, Volume II, 1844 which gives a vivid description of Leducation in Bengal and Bhar manufy founded on Adam a Reports

The Hooghly College supported from the of children of the higher castes Mohsin Fund comprised Lightsh and oriental departments The foundation by the Ben, al Committee of the Calcutta San krit College was opposed by Raja Ram Mohan Roy and others as retrogressive in tendency schools on more or less modern lines were opened at \, ra and D.lhi Th. Poona College was saved by Mountsturet Flphinstone through the introduction of veracular and English and the opening of its doors to other than Brahmans. The tendency in favour of western culture found expression in Macaulay a Minute and realisation in a rapid growth of modern institutions. For these missionary and efficial efforts were responsible. The former had previously con centrated on conversion. The Baptist College (1818) at Scrampur had com lined instruction in the tenets of Christianity with the study of Sanskrit and Arabic Bishop's College (1820) was and still is for the reception of The idea of conversion however vielled to that of Christian students The General Assembly a Institution of the Church of Sectland education (1830) and the London Missionary Society's Institution (1835) were founded in Calcutta the Christian College (1837) and St. Joseph's College (1841) at Nagaratam in Vadras the Wilson College (1834) in Bombay. These were Negapatam in Madras the Wilson College (1834) in Bombay quickly followed by Lovernment colleges In Bengal there were Dicca (1841) Krishna, ar (1845) and Berhampore (1853) while in 1855 the Presidency College absorbed the Calcutta Vidyalava In 1841 the Madras University was started-at first a high school now the Presidence College of Madras. The similar institution in Bombas originating with a private endowment in 1827 was organised as the Liphinstone Institution in 1840. Meantime there were private organisations for the instruction of I properties and children of mixed descent in the larger cities. These were supported by bequests and subscriptions Captain Doveton (of the Vizam's service) endowed the Doveton College in Calcutta General Claud Martin (who had been in the service of the hing of Oudh) founded the Martinière Colleges at Calcutta and Lucknow *

Gro eth of demand for vernacular and Er glish education

8 From the tangled history of those early times three movements detach themselves—the rapid growth of the demand for English education the gradual acceptance of responsibility by government, the tardy recognition of the importance of elementary as opposed to higher education. In the first instance government-or rather individual officials-had founded institutions for the study of the traditional classics. But even before the abolition (permitted under Act XXIX of 1837) of Persian as the language of judicial and revenue proceedings interest 1 id been aroused in the cultivation of the vernaculars and a knowledge of English had come to be recognised as the high road to preferment and the door to the treasury of western knowledge In the institutions designed to give oriental teaching the pupils had to be retained by stipends in schools where Inglish or the vernacular was trught the majority paid fees Turthermore there was a genuine desire for modern culture Raja Ram Mohan Roy in the course of his protest to Lord Amherst against the estal lishment of a Sanskrit school had written in 1823. If it had been intended to keep the British nation in ignorance of real knowledge the Baconian philosophy would not have been allowed to displace the system of the schoolmen which was the best calculated to perpetuate ignorance. In the same manner the Sanskrit system of education would be the best calculated to keep this country in darkness if such had been the policy of the British The controversy culminated in Macaulay's brilliant Minute and Lord Bentinck's resolution of 1830 which directed efforts and funds to the promotion of European literature and science the places of oriental learn the promotion of Large-en the promotion in generated by the professors were to be paid but not their students. Macaulas has sometimes been mi understood He appears to have advocated English for the few and the consequent improvement of the vernaculars (and enrichment of their litera tures) for the many Instruction in English and the number of English teaching institutions have outstripped his ideal and there has not been commeasurate improvement or output in the vernaculars The possible dangers of this development were early observed Commenting on the despatch of Fourth Quinquennial Revew (Nathan) pp 43-45 and Howell's Education in British Ind a

1859, Raj i Radhakanta Deh wrote, Nothing should be guarded against more carciully than the insensible introduction of a system whireby, with a sinatturing knowledge of Linglish, youths are waned from the plough, the are, and the loom, to render them ambitious only for the clerkship for which hosts would besiege the Government and mercantile offices, and the majority being disappointed (as they must be) would (with their little knowledge inspiring pride) be unable to return to their trade, and would necessarily turn augitions. The evil is not wholly magnary. But it is often exaggerated Justice has not been done to the vernaculars. But no system that could have been institutions of western thought and of the Linglish language has probably been productive of considerably more good than harm, and perhaps it was interestable.

0 "Education in India under the British Government,' says Howell, Recognition of "was first ignored, then violently and successfully opposed, then conducted on education as a system now universally admitted to be erroneous, and finally placed on its a function of present footing' The early settlers were traders. Only gradually the the State pendulum swung round from commerce to administration. But education was hardly looked on as a part of the administrator's duty. It was regarded, even in the Lingland of those days, as the proper sphere of private enterprise The task in India was of deterrent magnitude. And the activities of mission bodies caused great alarm to government bodieties arose—the Calcutta School Book Society in 1817, founded with a view to supplying the lack of vernacular books, the Calcutta School Society, tounded for the improvement of existing schools and the establishment of new ones. The Marquess of Hastings was president of the latter society And government was gradually drawn into participation in educational management. The Charter of 1813 had permatted the Governor General in Council to apply a sum of not less than one lakh of rupees in each year to the revival and improvement of literature, and the encouragement of the learned natives of India, and for the introduction and promotion of a knowledge of the sciences among the inhabitants of The despatch of 1814 which announced the British territories in India the grant (the first educational despatch of the Court of Directors) showed that the sciences' referred to were oriental sciences—the many excellent systems of ethics contained in the Sinskiit language, "with codes of laws and compendrums of the duties relating to every class of the people, tracts of merit on the virtues of plants and drugs and many other things the study of which might do much to form links of communication between Indians and Luropean officials" Some organisation was required-if only to disburse the grant A General Committee of Public Instruction was at last con stituted in Bengal (1823) containing ten members of the civil service, another The former was replaced in 1842 by the Council was established in Madras of Education, a similar change took place in Midris In Bombay there was a Bornd of Liducation The Bergul Council of Education, however, merely looked after special institutions The bulk of the educational institutions were placed under the general department of the Government of India 1843 educational control in the North Western Provinces was transferred to the new government at Agra | Finally in the desputch of 1854 its respon sibility for education was emphatically brought to the notice of the admin istration, the need of extension and systematic promotion was affirmed, and the line, of a definite policy were hid down 10 Nor was at till the same date that the unsoundness was realised of the Slow grouth of

doctrine that education can be trusted to permeate downwards. It was a elementary confortable policy—especially at a time when the slender resources of education civiliertion were confined to the large cities. Outside these oases lay a desert of which little more also allowed the state of the control of the area of the control of the state of the state of the control of the cont

established elsewhere. The training of teachers was to be carried out through the selection of pural teachers their encouragement by stapends the drafting of them into normal schools and the grant of certificates And the profession of schoolmaster was to afford indimements such as were offered in other branches of the public service Sympathy was expressed for the cause of female education and for the growing desire of the Muhammadans to acquire I system of scholarships was to set up a ladder from Turopean knowledge one grade to another But the intention of these scholarships was to be protical They were to be devoted largely to instruction in teaching medicine

and engineering. The encouragement of the mere acquisite n of learning by your men of ability but of slender means was to be left to endowments and private benevolence. As to management and finance it was recognised that in view of the vast population and the plucity of available funds insuperable difficulties beset the extension within any reasonable time of the present system of education by means of institutions entirely supported at the cost of government With the agency of the state must be combined the aid which may be derived from the exertions and liberality of the educated and wealth natives of India and of other benevolent persons. Accordingly reliance was to be placed mainly on a grant in aid sistem. The conditions of rul were to be -(i) rededucte local management by private patrons volum tary sulscribers or trustees of endowments willing to superintend the school and ensure its permanence for a given time (ii) government inspection (iii) adherence to the conditions laid down for such grants and (iv) the require ment of some fee however small from the scholars. The insistence on fees (save in normal schools) was prompted by the belief that it would render education more valuable thus stimulating exertion and attendance and by considerations of finance. The system of aid was to be applied to higher institutions to angle vernacular and vernacular schools which imparted a good elementary education and to raising the character of the indigenous In the case of these last it was felt that minute and onstant local supervision would be specially necessary. Where private management proved sufficient government was not to found new schools and the time was anticipited when many of the existing institutions could be transferred from government to local bodies under the control of and aided by the State But it is far from our wish runs the despatch to check the spread of

education in the slightest degree by the abandonment of a single school to probable decay and we therefore entirely confide in your discretion and in that of the different authorities while keeping this object steadily in view to net with crution and to be guided by special reference to the particular circumstances which affect the demand for special education in different parts of India Finally with almost nervous exactitude the relation of the government was defined towards religious beliefs. In government institutions the education imparted was to be exclusively secular The system of grants in aid was to be based on an entire abstinence from interference with the religious instruction conveyed in the school assisted Inspectors were to take no notice whatever of the religious doctrines taught in aided institutions. And universities were to affiliate institutions con ducted by all denominations provided they afforded the requisite courses of

study and due guarantees for the conduct of the students

12 A brief survey of the events previous to 1854 and a careful study of Permanencu the despatch of that date are necessary to an understanding of educational of policy of policy in India Events have occurred to modify but not sensibly to change 1854 the system then outlined In some respects anticipations have been dis appointed Private effort has not to any extensive degree advanced elemen try education Too little attention has been bestowed upon vernaculars. The practical side of higher school education has not been effectively developed In some respects the policy then laid down has not been fully Too little encouragement was vouchsafed to oriental endorsed by experience studies Discontent is expressed at the secular character of instructionthough private schools have taken but slight advantage of their freedom and though a safer rule is still to seek. In some respects the doctrines then invogue have fallen into disrepute. Affiliating universities have been condemned. Pupil teacher systems have ceased to inspire confidence. In

of any general law continued inefficiency on the part of the teachers or management is met by withdrawal of grant of scholarship rights and of recognition for purposes of presenting candidates at any public examination. In the case of colleges affiliation is granted or withdrawn under law and regulations by the government concerned on recommendation from the senate of the university. The recognition of schools for presentation of candidates at matriculation is granted and withdrawn by the syndicates of the universities—save in the case of Madras where these acts are performed by government. There remains the case of schools established where they are not required in unfur competition with existing institutions and those deliberately set up in defiance of the existing system. The former have sometimes under a mustaken policy of toleration and encouragement carned recognition to the detriment of educational interests, when such recognition is defined they quickly die.

17 On the other hand it is incumbent on no one to send his children to (b) for com school Elementary education has recently been made compulsory in the native puls on of State of Baroda at first over a limited area then over the whole state. This pupils development is still admittedly in an experimental stage. The question of in troducing into British India a similar measure coupled with free elementary education was raised by the Honble Mr Goldhale in the Imperial Legislative Council early in 1910 A year later Mr Gokhale introduced a Bill for making the adoption of compulsion permissive for municipal and district board authorities provided the numbers actually at school reached a percent age (to be fixed by the Governor General in Council) of the children of a school going age within the locality in question and provided the Local Gov enment concurred in the application of the Act to that particular area. The measure was to be applicable separately to loys and girls The Bill was introduced but was rejected a year later after an interesting debate at the second stage. It was held that the mass of opinions which had been collected in the interim condemned the Bill as a practical measure and that it was premature for an agricultural country where the demand for education was still While a large body of educated opinion favoured the measure and there was a general desire for the spread of education there was no display of willingness to defray the cost and the most thoughtful condemned the Bill as premature and likely to retard progress. An account of the main provisions of the Bill and the principal arguments advanced on either side will be found in paragraphs 294-296 of this volume

18 A few words must be said here regarding the events which have led up Administrative to the system of administration and finance to be described later in this review in act inery. The concept hollow of religious the state of the management of schools was

The general policy of relieving the state of the management of schools was laid down in 1854. The despitate of 1830 did not pronounce so clerily on the subject and contemplated the increase where necessary of the number of potential materials. The question was discussed at length by the Commission of 1882 and the policy was upheld (given efficient control) not withstanding a large amount of evidence against the wisdom of the with drawnl of government ananagement. In 1900 the Secretary of State reminded the Government of India of the necessity of government control guidance and assistance in higher teaching and indicated the describility of munitaling a certain number of government schools. The Royal Commission of 1908 on Decentralisation in India doubted the propriety of local bodies maintaining and managing high and other English teaching schools they considered that recondary education should be in the hands of government.

vectoring education should be in the hands of the state of the extent discredited by depirture from the definition given in 1854 of a management by the growth of schools run by private individuals on money making lines and insufficient control. Nevertheless government have adhered to the policy of encouraging privately managed schools under sintable bodies maintained in efficiency by government inspection recognition and control and by the aid of government funds. This levolution of authority has been made in the case of higher institutions mainly to private rescontions—missionary and otherwise in the case of elementary institutions mainly to municipalities and district boards which can either maintain their own schools or make grants from their funds to privatel managed.

The idea of municipal government in India is as old as 1687, and in that year the election of a school house (but apparently only one) was regarded as among the functions of such a body | Effective municipal admin istrition and the extension of the principle of election date from the latter half of the last century especially from Lord Ripon's vicerovalty and the Acts of 1883 1884 Primary education is now regarded as an obligatory duty of municipalities Similarly a system of board administration in the pural areas was established by the Local Self Covernment Acts of 1883 1885 and the bodies thereby created (varying considerably in constitution for dif ferent parts of the country) have extensive functions in connection with elementary education The Royal Commission on Decentralisation proposed the confinement of the efforts of local bodies entirely to primary schools and the further devolution of educational functions to rural boards sub district boards and panchayats the grant of reasonable latitude to sub district boards to settle the curricula the maintenance by local bodies of their own inspecting staffs (in addition to the government inspectorate) and the abrogation of rules requiring those bodies to devote specific percentages of their revenue to education. These recommendations are under consideration. But the important fact remains that government superintends but does not manage orlicational institutions | Exceptions are certain colleges special institutions primary schools where there is no other satisfactory agency for their main tenance and a few secondary schools intended to maintain the standard of instruction and discipline In 1870 71 government institutions and pupils numbered 10 304 and 461 818 respectively those under non government management 72 748 and 1 433 005 To day government has 1 991 institu tions containing 187 726 pupils non government institutions number 134 341 and their pupils 5 940 999 General superintendence and the staffing of the few government institutions are provided for by educational services of which a description will be found in chapter IV In Madras the United Provinces and the provinces now comprised in Bengal and Bihar and Orissa a portion of the inspecting staff was until recently paid and controlled by the district The entire inspecting staff has now been handed over to government

Fınancıal policy

19 It has been stated that the charter of 1813 permitted the appropria tion of a lakh of rupees annually for purposes of education. But sive for its reliance on private resource he despatch of 18/4 pre crib d no financial The despatch of 1859 repaired this omission by laying down as a principle the imposition of a local rate (being a fixed proportion of the annual value of land) for purposes of elementary education This was followed by the Cess Acts for Sind (1865) Madras (1866) Bombay '1869) the United Provinces and the Punjab (1871) There was considerable variety in these Acts That for Bombay made compulsory a rate of 61 per cent on the land revenue The forward condition of education in certain parts of that presidency has sometimes been ascribed to this In Madras on the other hand the imposition of a rate was quasi voluntary the inhabitants of an area being empowered to assess themselves for educational purposes The result in the latter presidency was failureno increase in the funds nor in the number of rate schools on the other hand some closed and it was remarked that there can be little doubt that if a free voice were allowed in several villages a majority would elect the discontinu In Bengal the Act provided only for communications ance of the schools not for schools The permanent settlement offered a difficulty Early statis ties show that in this province and Madras the actual expenditure from public funds on elementary schools was far below one per cent of the land revenue (the standard generally adopted in other parts of India) while in Bengal not only was seven tenths of this met from imperial funds but the educational only was seven tental of the proposes was in large proportionate excess to the land revenue as compared with other provinces. Meantime expenditure had grown in 1866 67 to a total of just over 76 lakhs of rupes (taken for eleven months and exclusive of Burma) Of this imperial funds contributed nearly 49 lall his receipts of Educational Committees cesses fees private endow ments etc 23 lakhs and other private sources 5 lakhs † In 1870 71 the

schools The idea of municipal government in India is as old as 1687 and in that year the ere tion of a school house (but apparently only one) was regarded as among the functions of such a body Effective municipal admin istration and the extension of the principle of election date from the latter half of the last century especially from Lord Ripon's viceroyalty and the Acts of 1883 1884 Primars education is now regarded as an obligatory duty of municipalities Similarly a system of board admini tration in the rural areas was established by the Local Self Covernment Acts of 1983 1850 and the bodies thereby created (varying considerably in constitution for dif ferent parts of the country) have extensive functions in connection with elementary education The Royal Commission on Decentralisation proposed the confinement of the efforts of local bodies entirely to primary schools and the further devolution of educational functions to rural boards sub district boards and panchar ats the grant of reasonable latitude to sub district boards to settle the curricula the maintenance by local bodies of their own insi ecting staffs (in addition to the government inspectorate) and the abrogation of rules requiring those bodies to devote specific percentages of their revenue to These recommendations are under consideration. But the important fact remains that government superintends but doe not manage clucational institutions Exceptions are certain colleges special institutions primary schools where there is no other satisfactory agency for their main tenance and a few secondary schools intended to maintain the standard of instruction and discipline In 1870 71 government institutions and pupils numbered 10 304 and 461 818 respectively those under non-government management 72 748 and 1433 00. To day government has 1991 institu tions containing 187 726 pupils non government institutions number 134 341 and their pupils 5 940 999 General superintendence and the staffing of the few government institutions are provided for by educational services of which a description will be found in chapter IV In Madras the United Provinces and the provinces now comprised in Bengal and Bihar and Orissa a portion of the inspecting staff was until recently paid and controlled by the district The entire inspecting staff has now been handed over to government

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19 It has been stated that the charter of 1813 permitted the appropria tion of a lakh of rupees annually for purposes of education. But save for its reliance on private resource he despatch of 1504 pre crib d no financial The despatch of 1809 repaired this omission by laving down as a principle the imposition of a local rate (being a fixed proportion of the annual value of land) for purposes of elementary education This was followed by the Cess Acts for Sind (1865) Madras (1866) Bombay (1869) the United Provinces and the Punjab (1871) There was const lerable variety in these Acts That for Bombay made compul ory a rate of 61 per cent on the land resenue. The forward condition of education in certain parts of that presidency has sometimes been ascribed to this In Madras on the other hand the imposition of a rate was quart voluntary the inhabitants of an area being empowered to assess themselve for educational purposes. The result in the latter presidency was failure no increase in the funds nor in the number of rate schools on the other hand some clo ed and it was remarked that there can be little doubt that if a free voice were allowed in several villages a majority would elect the discontinu ance of the schools In Bengal the Act provided only for communications not f r schools The permanent settlement offered a difficulty Early statis tic show that in this province and Madras the actual expenditure from public finds on elementary schools was far below one per cent of the land revenue (the standard generally adopted in other parts of India) while in Bengal not only was seven tenths of this met from imperial funds but the educational In leet grant for all purposes was in large proportionate excess to the land revenue as compared with other provinces. Meantime expenditure had grown in 1806 67 to a total of just over 76 lakhs of rupees (taken for eleven grown in 1840 of a death of just over 1971 than on 1972 feature for energy months an forcusive of Burma). Of this imperial funds contributed nearly 48 lil his receipts of Iducational Committees cesses fees private endow ments etc. 23 likl's and other private sources 5 likhs! In 1870 71 the

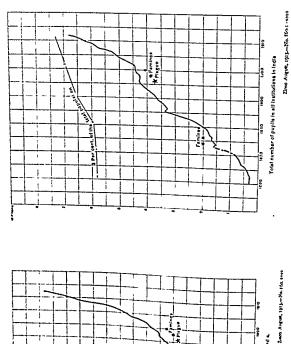
III —General organisation

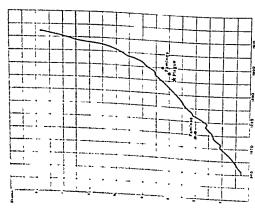
24 It will be convenient here to touch briefly on the outlines of the system now prevalent in India, if only for the sake of defining the terms which occur This may be done under the heads of manage in the forthcoming chapters ment, finance and classification of institutions

25 Government guides the policy and inspects, but does not own or Management manage colleges and schools There are exceptions to the latter assertion, and they are important. For there are certain institutions which government alone can efficiently maintain, and others among which the maintenance of a limited number by government is wholesome An account of the controlling agencies is given in chapter IV For the most part, elementary schools are maintuined by local bodies and private societies or individuals, secondary schools and colleges by private societies Government also maintains some high schools and colleges, nearly all the training institutions for teachers, and the more important of such special institutions as deal with engineering, industry, medicine, agriculture, forestry, etc Thus the vast majority of the ordinary places of instruction are in the hands of local bodies or private agencies Government, however, inspects through its officers, prescribes the curricula (save when courses are subject to the universities) and apportions And all the institutions which submit to inspection, follow the curri cula and receive (or hope for) grant in aid, are termed public institutions These are sub divided as public institutions under public management -- ? e, management by government or by a municipal or other local body such as a district board, and public institutions under private management—10, management by a society, a committee, or an individual. In addition, there are private institutions-those which have not accepted departmental or university standards and do not submit their pupils to any public test. The number of these is not very large and has slightly decreased in the past five years, though a small increase is visible in the pupils. The tendency is for the private school to enter the list of recognised schools and become a public institution under private management

There are other agencies of control The most important of these are the universities These are incorporated bodies partially under the control of government but possessed of a large measure of independence Their influence is limited to colleges and high schools for which they prescribe courses and hold examinations

26 The total cost of the educational system is shared almost equally be Tinance tween public and private funds By the former are meant provincial revenues and municipal or district board funds Provincial revenues are the produce of the had revenue and of taxation, part of which is paid under provincial settlements, into the imperial exchequer and part is retained by the Local Government The portion paid to the imperial Government, enhanced by the produce of purely imperial heads of revenue (railways, irrigation, opium, etc.) is partly used for imperial charges, such as the army, and is partly given back in various ways to provinces. One of these ways is the occasional distribution of sums for set purposes, such as education or sanitation The Government of India are able to urge forward a general policy by thus making available to Local Governments the means for its accomplishment. The system has been questioned as tending to over centralisation The Royal Commission on Decentralisation recommended in respect of these grants that the system must be maintained provided that it involves no increase of administrative con to by the Government of Indix, and that the views of Local Governments are taken as to the relative urgency of objects. They also remarked that objects should not always necess' rilly be the same in every province, and that recurring grants may gradually be converted into shares of growing revenue. Municipal and district or local boards levy cesses. As this source of income is generally insufficient for their needs, it is increased by Local Governments through equilibrium grants for general purposes (i.e., grants calculated to square income with expenditure) and also special grants made for such purposes as expansion of education A portion of the municipal or district fund is spent on education, and it is necessary to recollect that the fund is partly the produce of local cesses and partly contributions from provincial





Copen 'Ture on Education in Ind a

CHAPTER III GENERAL PROGRESS

I -Statistical Progress

28 The first noticeable feature of the quinquennium is the increase of Increase of pupils In 1907 the number was 5 388 632 In 1912 it was 6 780 721 or pupils nearly 26 per cent larger Compared with past periods the increase is large compared with the population it is small The school going population has been calculated in India as 15 p r cent of the population Doubts have recently been cast upon this conventional figure. The calculation depends upon the number of years which may be reckoned as representing a reasonable time for education the ages which begin and end this period and the propor tion of the population which is at any time included between those ages the one hand in a country which is tropical and sub tropical the proportion of the population contained in the earlier age periods is larger than in cold climates * On the other hand where the bulk of the population is agricul tural the period of education is necessarily shorter than under more complicated social conditions and the amount of education required is less The actual time spent under primary instruction is so far as the figures adduced in chapter VIII can show 38 years. This period however cannot be taken as sufficient to secure permanent results for the figures of literacy warrant the assumption that many of those who receive education relapse into illiteracy The primary course (and this is all that need be considered) ordinarily occupies from five to six years and the average age of school life is from the completion of the fifth to the completion of the eleventh or twelfth year These ages include (if we reckon to the end of the eleventh year) 13 7 per cent of the populat on (if we reckon to the end of the twelfth year) just below 16 per cent t The old figure of 15 per cent may therefore he taken as fairly correct. On this assumption only 177 of the population

20 The increase of 20 in the percentage is large especially when it is considered that the figure for 1907 is reckoned on the census total of 1901 that for 1912 on the census total of 1911 and that the latter total exceeds the former by over fourteen in litons of souls. But the percentage in itself is very small. The reasons for this can be more suitably discussed in the chapter on primary education. The following are the increases in different provinces.

of a school going age are now at school against 14.8 per cent five years ago If only pupils under primary instruction are taken the percentage is still less

	Purils at school	S (F GURES IV	Pe c ntage	Parcen age of the total popus on
Prov n e	1907	1912	in rease	a school.
Vadras	1 007	1 250	27 1	3 1
Bombay Bengal	7°1 1 269	923	28 0 26 9	2 9
Un ted Prov n es	606	710	17 5	1.5
Punjab	300	381	270	12
Burma Eastern Bengal and Assam	899 816	445 1 075	11 5 31 7	31
Central P ov nees and Berar	237	313	3 ³ 1	20
Coorg	5	7	400	3.9
North West Front er Prov ce	29	85	20 7	16
TOTAL.	و ۶ د	6 751	25 5	2 7

^{*}O Sundling the customs que l'infernation nouve page 114 TO Addhead. Profit on he ce ma d'optédut du con el lle Indon populat in au recorded et the Cennes of 1911 page 30.

The percentage of increase is over 30 in three provinces. The figures of the last column fairly represent the educational condition of different provinces as set forth in this review.

In 1902 the percentage of those at school to the total population was 10, and in 1901 the percentage of literacy $v_0 \approx 5.3$ Now 27 of the population are at school, and in 1911 the percentage of literates $v_0 \approx 5.3$

Another rough means of judging the advance of education is a consideration of the growth in the number of newspapers and periodical. The number published in India in 1906 was 1,366. In 1911 it was 1815. The increase has been much larger in the Bengals than cleachers. It is less easy to speak of the circulation of these papers. Some of the new productions have a minute circulation, but that of the more popular papers has generally increased.

Increase in expenditure

30. The total amount spent upon education has risen from Rs. 5 59,03,673 (£3726 911) to Rs. 7 85,92,003 (£5239 507). The figures for provinces are given below —

Province.	TOTAL AMOUNT SPENT ON		Total increase	Percentage of
	1907	1912	Total latitude	Increase
	Rs	R.	Rs	
Madras .	97,61,335	1,35 65,102	34,00,741	85.9
Bombay .	1,06,43 050	1,06,17,527	29,71,435	250
Bengal .	1,16 63,163	1,72,02,131	55,38,906	47.6
United Provinces	71,89,550	1,07,02,535	83,03,758	11 1
Punjab .	51,96,590	65,61,909	10,65,019	, 32)
Burma .	31,57,233	17,36 611	12,12,408	35 P
Fastern Bengal and Assam	51,21 071	80,10,561	20,22,297	57 1
Central Provinces and Berar	22,15 061	32,65,111	10,17,350	15 5
Coorg	49,166	72,851	23 (55)	45.2
North-West Prontier Province	2,87,751	1,25,135	1,90,741	90 5
Toyat	5,59,03,673	7,45,02,005	2,26,89,982	101

This represents expenditure from both public and private sources, which contribute to the total in about equal proportions. In 1912 the expenditure from public funds was just over four crores of rupees (nearly £2,700,000), distributed among provinces as below.

Province.	Totas amoust met show surlic surlic			Percentage
	199*	1912.	Total increase	of increase
	Rs	Rs	Re	
Malras Bombay Bengal United Provinces Punjab Burma Burma Central Provinces and Berar Central Provinces and Berar Coorg North-West Frontier Province	42,79,520 56 78,537 48 50,614 49,27,654 32,12,136 22,03,949 25,13,520 17,40,536 33 925 1,59,030	59 61,266 71 55,139 68,10,085 67,55,076 39,73,550 26,87,601 40,10,524 25,65,517 53 495 3 09,818	16,81,676 18,69,602 19,29,471 18,30,122 6,63,411 4,78,652 11,97,603 8,21,721 19,570 1,50,763	39 - 31 : 39 : 39 : 39 : 39 : 39 : 39 : 39 :
Total	2,98,31,571	1,05,23,072	1,03,85,198	36

The North West Frontier Province easily leads the way in the increase both of total and of public expenditure. Eastern Bengal and Assam comes next. It is interesting to observe that in these two provinces and in Madras Bombay, the Central Provinces and Coorg public expenditure has increased more rapidly than total expenditure.

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31 The quinquennium has witnessed the allocation of imperial grants Imperial for purposes of education The amounts devoted to each branch of education grants will be stated in the appropriate chapters The totals are as follows —

to recurring grints anotten in 1911		90 17 000	
1912		65 00 000	
1913		3 19 00 01 0	
	TOTAL	47417000 (£3161133)	
		Rs	
Recurring grants allotted in 1919	•	50 00 000 for popular edu cat on	
191°		10 00 000 for un versit eq and secondary	

of education

Toral 1 15 00 000 (£766 767)

education

5a 00 000 for various kinds

These figures include grants made shortly after the close of the quin quenium. The full effect of these allocations has not yet made itself felt in the general expenditure figures. Indeed the actual distribution of the last non recurring grant is being spread over three years. On the other hand the grants made in 1900 and 1906 have placed their part in facilitating progress during the period under review. The figures of this paragraph refer solely to imperial grants not to the natural increase of provincial expenditure on education.

1913

- 32 The average cost of educating a pupil has risen from Rs 882a year Average cost of to Rs 9411 Out of this public funds defray Rs 4119 The cost is a pupil highest in the Punjah (Rs 14-118) and next highest in Bombay (Rs 13010) It is lowest in Eastern Bengal and Assam (Rs 5156) The most expensive institution is the professional college where a pupil costs nearly Rs 342 In an arts college the average expenditure is over Rs 169 in a secondary school Rs 23103 and in a primary school Rs 4-65
- 33 The general advance of education in India during the last fifty years Progress of the is illustrated in the diagrams which figure at the beginning of this chapter past file These show the gradual rise in the number of pupils and the concomitant wars rise in expenditure. The figures of the earlier years are unreliable the dotted line in the sixties and seventies represents transition to new and more complete methods of collecting statistical information. Freedom from famine in particular and generally the material prosperity of the country are im The famines of 1874 and 1876 the severe famines of 1897 portant factors and 1900 and the advent of plague about the same time delayed progress to a considerable extent while the 1886 87 depression was partially due to financial stress The resolution of the Government of Bombay remarks that during the latter part of the period under review plague was responsible for the closure of 363 schools in two divisions alone But the material prosperits of the country and the spread of education have been well maintained during the last decade. Since 1900 expenditure has increased by 100 per cent, and the number of pupils by 52 per cent

II -Change in attitude of the people

for compulsory education all these are symptoms pointing in the same direction while growing numbers afford incontestable proof of enhanced demand The Government of Bombay remark that the history of the period indicates the presence among the people themselves of a growing disposi tion favourable to the reception of higher educational ideals and aspirations'

35 Mr de la Fosse says that perhaps the most notable event in connection with primary education is the suddenly awakened interest in it manifested

36 On the other hand the rush into higher institutions (secondary schools and colleges) has been remarkable The increase of pupils during the

period has amounted to 47 per cent The reports notice the insufficiency of existing facilities to cope with rapid expansion In some provinces a limit of numbers has had to be fixed in government schools In the Bengals the made quacy of colleges to recommodate candidates for admission has proved em

by the general public If the zeal in some quarters somewhat outruns discretion its existence is a sign of happy augury The programme of extension called for by the Government of India should if funds suffice for its realisa tion certainly satisfy all but the most extravagant idealists unnatural that the cry for mass education emanates from classes already educated The reports contain indications that practical efforts towards its realisation are not always commensurate with profession The increase of pupils in secondary schools is comparatively greater than that in primary and sympathy is largely centred on higher institutions The Madras report speaks of apathy on the part of the Handus towards the depressed castes It is complained that some of the district boards have cut down their expen diture on education Municipal committees in the Punjab take little interest in the elementary education of the masses and eccondary schools claim the largest share of municipal expenditure on education in that province and the conversion of a middle vernacular school into an anglo vernacular school often arouses individual generosity Rural courses which do not lead to

education

(a) in primary

(b) in higher

education

Growing

interest in

education

34 The quinquennium has witnessed a remarkable realisation on the part of almost all classes of the growing importance of education The movement in favour of denominational universities the prominence which educational problems now assume on the platform and in the press the debates in the imperial and local legislative councils and the introduction of a private bill

barrassing Some interesting figures from the Punjab report regarding the numbers in secondary schools are quoted in paragraph 180 of this review 37 Individual assistance too is displayed mainly in the case of higher Induvidual or specialised studies Education in India is not largely endowed Sir A liberality Bourne complains of the lack of foundations for secondary schools tions are the generosity of the Tata family displayed in the establishment of the Indian Institute of Science at Banvalore and the liberal endowment of various institutions in the Bombay presidency. There are other exceptions and the number of endowed fellowships scholarships and prizes is by no means insignificant Among instances of private liberality during or just after the quinquennum may be mentioned the response to the appeals for denominational universities the gift of fifteen lakks made by Sir T Palit to the Calentta University the endowment of the Science Institute and

English classes are unpopular

Cuparat College and of the projected college of commerce in Bombas a Jurge donation for a university library at Calcutta and (most striking of all) the collection of five lakhs among the frontier tribes for the establishment of an arts college at the border city of Peshawar Reports mention other indivi-

of instruction has hitherto been too narrow. These have been the three guiding factors in such changes as have been initiated in organisation and in

III -General improvements 39 Government has utilised the opportunity afforded by enhanced Advance in interest the desire for better education and the growing sense that the basis

policy

39 With the growth of education and the increased complexity of the (i) Increased questions it involves a greater responsibility falls upon government and a responsibility larger portion of its attention is necessarily devoted to this side of administry of government Accordingly a separate department has been created in the Govern (a) Improved ment of India a department of public instruction has been organised in the organisation North West Frontier Province the inspecting staff has been strengthened throughout the provinces and has received the status of a government service where it did not previously possess it Large grants have been made for the expansion and improvement of institutions and the administration of these funds will in itself demand a greater perfection in the machinery The inspecting staffs of provinces are often too small to cope with the number of schools. Notwithstanding that they have been strengthened the number of officers in some areas is still quite inadequate. With enlargement of the staff there has arisen the need for co ordination of duties-a subject treated of in chapter IV Administration tends to grow more involved and this has necessitated in some provinces new methods of co operation with civil The growth of the subordinate inspecting staff demands increased supervision and threatens to be largely ineffectual unless means are adopted through special training to render it helpful rather than inquisitorial

A feature of some importance among the administrative changes of the period has been the devolution of powers to officers of the departments of public instruction. This is rendered necessary by the increasing volume of work. The measures of decentralisation generally relate to matters of routine and need not be detailed here. Though the more important of them is the power to appoint officers on higher rates of pay and to sanction building schemes up to a higher amount than was formerly permitted.

40 At the same time steps have been taken to take the public into con (b) Non official fidence in the framing of educational schemes. Sir Harcourt Butler, the first conjugation Member for Education in the Governor General's Council based the initial imited operations of the department upon the advice of three conferences to which

operations of the department upon the advice of three conferences to which non official representatives were admitted in large numbers. The first of these fittingly dealt with general problems of Indian education the second with the improvement of oriental studies the third with the education of the The proceedings of these conferences have been pub domiciled community lished in full and allusion is made to them in the preceding resolution and in the pages of this review. Nor is this all. Committees have been summoned for discussion in the provinces and the quinquennium has been characterised by the number of its conferences Conferences says Mr de la Fosse have been throughout the chief means by which reforms have been initiated Before mrking any step forward it has been the practice to take stock of the situa tion and to confer with experts and others interested in education as to the The questions of secondary and of industrial education plan of campaign in that province were considered by two conferences called at Naimi Tal This second question was also discussed at conferences held in Burma and in Eistern Bengal and Assam in 1909 and by a committee in the Punjab Com mittees were summoned for the framing of the school leaving certificate scheme in Madras and of courses for European schools in the same presidence for the revision of primary courses in Bengal the formulation of proposals for a school final examination and for the improvement of Muhammadan educa tion of the Presidency College and of the Calcutt a Women's Training College for the establishment of a technological institute in the same city and for the distribution of the imperial grants on the question of rural education in the United Provinces on the framing of a vernacular curriculum on the reform of madrassas and on moral and religious educ tion in Bengal and Lastern Bengal and As am A general conference ordinarily attended both by officials and non officials was established in the Punjab in 1909 as an annual event. The first of these meetings dealt with the unification of pri mary curricula the pay of village teachers the sum lification of the code etc the second considered a draft revision of the school curriculum the third dealt with more purely departmental subjects and was confined to departmental officers. An important development in Eastern Bengal and Assam has been the establishment as a permanent body of a Lemale Educa tion Committee which meets annually and is consulted by government on all

questions affecting the education of girls In addition says Mr Roy, to the formulation of large projects for the expansion and reform of girls schools of all grades the attention of this committee during the past three years has been directed to the inspection of schools the discussion and pre scription of better methods of teaching the improvement of individual institu tions and the encouragement of study among girls and women by the forma tion of ladies committees and the introduction of zenana teaching conferences have generally been largely attended by private individuals. Im portant schemes have been framed and considerable progress has been made in carrying them out

(11) Improve tions (a) State management

41 The superiority of the public over the privately managed school was ment of institu emphasised at the Allahabad conference of 1911 But the policy of entrusting higher education is far as possible to private agency is maintained. The recommendations of the Government of India mide in 1906 included the establishment of a certain number of government high schools. The Decentralisation Commission advocated the transfer of English schools from local bodies to government In the United Provinces high schools have been made over from district boards to the State-considerably to the benefit of the institutions In Burma a certain number of government high and middle Luglish schools are being established and it has been decided to bring under government management the municipal high schools at Bassein and Akvab the Central Frozinces administration has decided to play an active part in supplying secondary education in important centres. Part of the scheme jut forward for the North West Frontier Province is the provincialisation of municipal high schools which has since been sanctioned. It has been found desirable to place under government management (with the full con sent of the college authorities) the Gujarat College in Bombay and (just after the close of the period) the Morris College in the Central Provinces

(b) Board schools and educational surveys

42 The private management of primary schools has not proved successful Their organisation is defective their distribution uneven Large portions of the country have been actually over schooled but the mefficiency and poor accommodation of the institutions rendered them unattractive One of the most striking features of the figures quoted at the beginning of this chapter is the comparatively small increase of institutions amounting (for those of all kinds) to only 8 per cent against an increase in pupils of 26 per cent. In other words an institution now educates 38 pupils against 33 pupils five years ago This is particularly marked in the North West Crontier Pro vince where an actual diminution of 212 schools has been accompanied by an increase of pupils amounting to over 20 per cent and a large enhancement of expenditure In Eastern Ben al and Assam too the increase of institutions has been insignificant and the growth of pupils large A more even distri bution of schools is being observed single good schools are being substituted for groups of overlapping and inefficient institutions new schools are being established where none existed before Board primary schools are more popular and are increasing at a more rapid rate than privately managed The growing desire for instruction and the appreciation of more schools The growing uesus to instruction and the particular sections in instructions are errored by the proportionately greater increase of pupil The policy of government is a regular survey of the country with a view to a properly distributed provision of schools. The work has but now view to a properly distributed provision of schools. The work has but now commenced. The figures of the quinquennium appear to justify consider able expectations from its execution

(c) Privatel i managed inst tutions

43 While the demand is for board primary schools wherever possible on dervours have been made to improve privately managed institutions whether of the higher or of the elementary grade by means of grants The grants in aid to elementary schools in Madras increased by 38 per cent. In the United Provinces the annual grants to aided colleges increased by 69 per cent and nearly four lakbs were given for capital purpo-cs the annual grants in aid to schools teaching English rose by 32 per cent and those to European schools to enous tertains and a solution of the property of the solution of the soluti cular schools by 21 per cent to primary schools by 5 per cent and to special schools by 69 per cent The increase on the total expenditure is 15 per cent

The amount now annually disbursed from public funds to aided institutions is over 80 likhs and this sum excludes grants for capital purposes

The matter in which privately managed institutions stand mostly in need is improvement of staff. In state schools the teachers are pensionable in board schools they are sometimes pensionable and sometimes subscribe to provident funds There are few measures which would contribute more substantially to securing a better type of teacher in privately managed schools than the establishment of some similar provision. Progress in this respect has been made during the quinquennium. In Madras the question of estab lishing a provident fund for teachers in privitely managed institutions is under consideration and expenditure upon provident funds started by private managers is now recognised as a proper object of aid. Such funds have been established in various grades of institutions in the Punjab contributions towards them are allowed to count as expenditure on tuition in secondary schools they have been instituted for primary teachers in all districts Central Provinces administration has under consideration the establishment of a provident fund for teachers in aided schools. In the North West Fron tier Province a regular service of vernicular teachers has been formed. The Government of India have also addressed Local Governments generally on the subject

44 Among improvements must be reckoned the provision of more suit (d) Buildings able accommodation. There has been great building activity. Greater attention is being paid to the special requirements of educational buildings The provision of houses for primary schools remains a problem There is a tendency to adopt type plans for this and other simple forms of school houses This has especially been the case in the United Provinces where the designs include buildings for schools hostels and manual training workshops buildings since crected are stated to have given satisfaction in all respects and the existence of standard plans has effected great saving of labour. The reports from Bengal the Punjab Eastern Bengal and Assam and the North West Frontier Province also speak of type plans having been framedmainly for primary schools

45 It has more and more been recognised that the type of education (ni) Broader

followed by most pupils in India is narrow and deadening. The reaction ideas of against this state of things has taken different forms. The demand for edication industrial training and the reviving interest in oriental studies will be des cribed in the chapters on those subjects. It is necessary here to deal at some length with the subjects of physical and moral training and briefly to mention the steps that have been taken to free study from the influence of a hard and

fast examinational system

46 Greater attention to physical culture has been a feature of the quan (a) Physical quennum Bengril has recently obtained a physical director from the United and manual Station In the United Proximes much has been done for providing schools training with proper playing grounds. The protective side of physical education has begun to receive attention in the Punjab and a commencement has been made of systematic physical examination. This province has also a completely organised system of physical training and athletic competitions for schools high schools have their teachers of athletics vernacular schools are visited by peripatetic instructors in the employ of boards tournaments are held first in districts and afterwards at the headquarters of divisions. In the last year of the quinquennium a compulsory system of games was introduced into all government schools of the Central Provinces together with the payment of a games fee to support the clubs. This is reported to be working well The Madras report notices that an encouraging feature is the increasing ability of students to manage their games for themselves, while it is feared that most teachers still take but little interest in them. The same complaint is made about teachers in Bengal who as a whole do not appreciate the value of physical training for their pupils and do little for the better organi sation of school games much less take part in them themselves this there is no doubt great keenness evinced among college and secondary school pupils and a considerable efficiency has been attained in athletics while drill and deshi kasrat (country exercises) are regularly practiced in almost all public institutions both higher and primary

47 A word of warning has to be added though it is apparently not appli cable in all provinces upon a danger which attends the introduction of western systems of athletics Sir A Bourne remarks that the institution of tournaments and cup ties by which it has been sought to encourage games has not been an unmixed benefit It has even produced an incipient profession alism which keeps the number of boys actually playing games comparatively Nor is Mr Prior in favour of tournaments the spirit of sport (he writes) is almost entirely wanting and the great crowds of school boys who witness the matches usually contain only a very tiny per centage of boys who have ever placed the game themselves or ever will play it. While admitting that matters improve and that matches end less frequently than before in inter tribal warfare and stone throwing he is convinced that while the playing of organised games should be encouraged the time has not come for tournaments between institutions to be played with moral profit to the boys The Bengal report too complains of the spirit of profes ionalism which leads to the enrolment of boys in schools in order that they may be qualified to play in matches and the over emulation and excite ment which sometimes result in acts of violence against the opposite party or their friends The report from the United Provinces cites an instance in which the students of a normal school were summonsed by the team which they had defeated at hockey for assaults committed in the course of the game

the case was happily compromised out of court when it came to be under stood that no malice lay behind the vigour of the attack The same report states that it has been found desirable to abolish the tournament system altogether owing to the professionalism and unpleasantness which were engen dered and from which it appears not even headmasters were altogether free Its disappearance appears to have had no damaging effect upon enthusiasm On the other hand the fostering endeavours of the college staffs and of a university committee for inter collegiate contests are said to have wrought improvement in athletics in the Punjab where in spite of occasional disturb ances, a more friendly and sportsmanlike spirit is said to be growing up and there is no reason to question the beneficial effect of tournaments

Professionalism and crude ideas respecting contests where party spirit may run high are dangers to be guarded against and the latter is a not un natural characteristic of the earlier stages of an implanted growth But the taste for cames in themselves is wholly good and the right spirit is growing The average Indian student lives a healthy life when he has the opportunity In some of the large towns his physical condition often leaves everything to be desired Calcutta possesses over 8 000 college students and nearly 58 000 school pupils Beyond the public parks few of the institutions have play grounds worthy the name Wany have none others give the title to any small space that happens to be unoccupied in the compound

48 Save for the beginning made in the Punjab but little is done in the way of medical inspection Simple hygiene lessons are generally included in vernacular text books and the subject sometimes figures as a separate one in higher schools But the teaching is too often unreal. The Government of India have recently given Rs 25 lakhs for educational hygiene the provision of playgrounds and kindred objects

- 49 Manual training is being introduced as a part of the instructional system but its introduction is slow. Mr. Prior says that this branch of a liberal education is still viewed with dislike and distrust it is not regarded as any part of the stock in trade of a clerk a graduate a shop keeper or a gentleman all that the parent asks of the school is that it shall pass his son by any means through the requisite exam nation \evertheless manual training now forms an item in the course of some of the training institutions manual classes are attached to some of the board schools in Bombay Sloud classes to selected schools in Burma and two Local Governments have indented for manual instructors
- 50 The question of religious and moral training has come prominently to the fore during the quinquennum. The attitude of government as regards (b) Peligious the fore during the state of the state of neutrality—abstention from religion in public schools abstention from interference with teaching in

and moral snstruction. privately managed schools Certain concessions have been allowed. In the United Provinces the education code permits religious instruction for one hour a week to the children of parents who desire it but the ordinary staff is to have nothing to do with the instruction. In the Punjab the code per mits religious instruction on the premises of board schools out of school hours provided that it is imparted in accordance with rules laid down by the local body that the parents desire it that no teacher in regular employ is compelled to teach and that no charge for such instruction is paid from public funds. In 1909 10 religious instruction was permitted in state schools in Burma where the great majority of the people are Buddhists and thus ofter a fairly homogeneous field. The chief conditions imposed were the equal recognition of different faiths the provision of instruction out or school hours without compulsion and only at the request of parents or guardians the separation of any fees collected for religious instruction from school fees the approval of the selected teacher by the inspector and the prohibition of any religious ceremony festival or public act of worship within the school precincts

- 51 The results do not always confirm the reality of the outery against a purely secular system There are vast numbers of privately managed institutions of every grade where religious instruction has always been permitted and yet none has ever been imparted. In the United Provinces only five schools have taken advantage of the concession made in the case of govern ment institutions. Mr de la Fosse concludes that the middle class parent is parcus deorum cultor et infrequens and remarks the fact that though by reason of the equal observance of the festivals of various religions no school boy in the world enjoys so many holidays as the Indian school boy yet those who demand religious instruction have not thought of utilising these opportunities It must however be remembered that the main declara tion of government dating as it does from a time which apprehended the dangers of proselytisation is regarded as deterrent in the case of publicly managed schools that in a matter like this the privately managed school is prone to follow suit and that new orders take long to permeate the public mind In Burma the idea of religious instruction is rendered familiar by its prevalence in monastic schools and similar instruction chiefly Buddhist (though representatives of other religions have equal rights of access to pupils of their faiths) is now given in sixty state institutions. The teachers are mainly members of the school staff and receive no special remuneration system is said to be working smoothly and to be productive of good-if only by weakening the belief that secular instruction is the only work of schools Yet even here though the concession was received with delight by those concerned and though parents are not apathetic practical help from them is not forthcoming and there is a tendency to look to government for every
- 52 The influence of a long established principle natural inertia and the habit of regarding a school as a machine to facilitate the passing of external examinations doubtless largely account for the contrast between inactivity and outcry. Nor is the demand universal. There can be no doubt of its widespread reality among Mindammadans. It is less general among Hindus This was strikinely emphrisised in the divergent opinions expressed at the Allivhibid conference. One speaker averred that those brought up in the most orthodox manner often display the most unsettled minds another cited in instance in which the introduction of religion as part of the school course had given rise to religious reaction and political propagandism both these unthorities considered usich instruction to be impossible. Mr de la Fosse observes that purely secular education is often regarded as the underlying cruise of social moral and political unrest but that a previeted religious sense has quite as often been the cause of depravit. Mr Godley warms arounst the too common assumption that the value of a school as a moral agency is secured by the inclusion of some form of religious teaching
- 53 The changes in rule which have been noticed the increase of denotion of funds for communal universities form the record of achievement during the quinquennium. This

does not amount to much. The time has rather been formative of opinion How, er slowly it transforms itself into deed there is no doubt a feeling abroad that re-pect for parents and teachers has waned that the students noral storehouse is often empty, swept and garnished and that it is consequently receptive of wild and irresponsible notions. The evil is symptomatic of transition—the conflict between the old and the new. The Government of Indiri have suggested the calling together of committees in the different provinces to consider the matter.

Moral in truction presents less difficulty. The reading books commonly include moral lessons. Sometimes direct moral instruction is given. In Bombay a book of moral stories has been prepared for teachers. The difficulty lies with the staff. "The average teacher" says Mr Godley, has not the capacity for imparting direct moral instruction in such a way as to in terest and impress his pupils." There are plenty of exceptions, and better recruitment and training will effect a change. Meantime as one authority says we must not attack the problem as if it were a case of laying on gas and water. There are educationsits of experience" says Mr Prior who firmly believe that morality cannot with benefit appear upon a time table that it should permeate the whole currentlum work. Play and life of the school and that at present we have not the necessary vehicular facilities for the imparting of specific morality. Personally I believe rather in discipline the example of worthy men mental development (in-tead of memory cram numc) enlistment of purental co-operation and in organised manly earnes."

The hostel

54. One way of bringing order and good influence into the students life is through the hostel system. Owing to the unsuitability of many so-called guardians," says Mr Prothero, who are allowed to act in loco parentis, but who are often in no way connected with their wards and have no control over them and the want of well qualified resident superintendents for the messes it is hoped in time to establish sufficient college hostels to accommodate all students who do not live with their parents or natural guardians. Students require suitable accommodation strict oversight quietness for study care in sickness, and freedom from domestic wormers, and only in hostels can these wants be sufficiently supplied. The Lieutenant Governor of the Pinjab be lives that a system of denominational hostels may meet the difficulty of religious instruction.

There has been a great increase in hostels during the period. There are now 2796 hostels with 1073-8 boarders and the annual cost as Rs 5472-340 a year. The answering figures five years ago were 1930 hostels 78-412 boarders and Rs 367-1765. In the Central Provinces the increase of boarders in secondary schools amounts to 5a per cent. The Government of India but recently made grunts for hostels amounting to the labba recurring and Rs. 1348-2000 (£900-600) capital. The recurring the stephalter is probably in the first instance being spent on buildings. But hostels require good superintendence and money will be required to secure the latter.

The examer a tron system 5. The policy of Lord Curzon's government struck a blow at the system of excessive examinations in India The only school examinations ordinarily recognised are the in situ test that closes the primary course and that which closes the complete school life College life is still largely a preparation for university examinations. Opinion in some quarters continues to mourn the abolition of examinations at intermediate stages of the school career here and there linger vestiges of the old system. On the whole however the change has undoubtedly been for good. The further problem of the nature of the test that should close the secondary school course has exercised the rainds of educationists It is recognised that the matriculations of the univer sities suffer from the difficulty of dealing with unmanageable numbers of candidates and from the defects inherent in external examinations alred it had its school final examination recognised for entrance to the public service but not to the university. Madras and the United Provinces have instituted systems during the period also Burma and the Central Provinces where however the attempt has not been attended with success. The object of these schemes (which will be described at

length in chapter VII) is to place the test in the hinds of persons activilly cognisant of the schools to give due weight to the record of the pupil and to introduce oral and practical tests as an indjunct to written papers. Sir A Bourne says of the system in Madris that the secondary school certificate records not only the degree of success attained in a public examination but also the work done in school for not less than three years and the chiracters and aptitudes of the holders as manifested during the same period. The scheme is reported to have had great success and is described in the resolution of the Local Government as perhaps the most striking reform of the quinquennum.

IV -Main events of the period

- 56 The preceding section has indicated the main trend of development. The ensuing chapters will treat of education and its progress under various heads. In order to provide a synoptic view some of the main events of the last five years (exclusive of those already mentional) are recited below.
- 57 The continued effect of the legislation of 1904 has been visible in University and university and collegiate education The exercise of the powers thereby con college education ferred on the universities has added to the efficiency of the colleges universities themselves have been busied with (in some cases) the consolidation of the courses of study with the initiation of teaching arrangements in post graduate work and with the provision of suitable buildings for their meetings their libraries or their examinations. In the meantime new ideals of university education have arisen which bode far reaching changes in the The Hindus and the Muhammadans have proposed denominational universities at Benares and Aligarh A scheme is being formulated for a teaching and local university at Dacca and separate universities have been suggested elsewhere The size of colleges has increased The attainment of higher standards has added largely to their cost. Among single incidents the most striking is undoubtedly the movement for collegiate education among the frontier tribes This has already taken a most practical form and at the opening of the buildings destined to grow into the Islamia College of Peshawar Sir Harcourt Butler pointed out the deep significance of this event Standing here on the most famous highway of Asia facing the mouth of the khyber Pass I confess that my imagination is powerfully affected at the prospect of the enlightenment which will radiate from this school and college not only in this province and along the frontier but fir into the recesses of Asia

58 Secondary education has developed along lines laid down in 1906 and Secondary generally resterated in the foregoing resolution The various Local Govern education ments have so far as funds were available translated this policy into fact Among the reforms now in progress none is more important than the improvement of the prospects of teachers in these institutions-whether by the framing of more favourable terms of service in government schools or by the enhancement of grant and the introduction of more elastic methods in its assessment for those under private management. In some provinces much has already been done in these directions notably the services have been improved in Bombay the United Provinces the Central Provinces and the North West I rontier Province. The demand for English education is in creasing enormously and the number of pupils attracted by the higher effi ciency of government institutions has in some places proved a source of embarrassment Several provinces have substantially raised the fee rates in secondary schools and in colleges. This measure has hal no apparent influence on numbers. The curriculum has been entirely revised in Lastern Bengal and Assam. The growth of systems of school leaving certificates or examinations in several provinces (notally Madras) has been an important feature of the quinquennium Some of the reports complain of the adverse effects of the matriculation upon study and originality of method. The Bengal report also questions the stan lard of the matriculation and the reso lution of the Government of Bombay mentions indications that most of the colleges have been suffering from a plethora of immature first year students induce I by the unduly low standard of the matriculation and supports the

does not amount to much The time has rather been formative of opinion However slowly it transforms itself into deed there is no doubt a feeling abroad that respect for parents and teachers has wanced that the students moral storehouse is often empty swept and garnished and that it is consequently receptive of wild and irresponsible notions. The evil is symptomatic of transition—the conflict between the old and the new The Government of India have suggested the calling together of committees in the different provinces to consider the matter

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The hostel 8 jstem 54 One was of bringing order and good influence into the student's life is through the hostel system. "Owing to the unsuitability of mainy so-called guardians" says Mr Prothero "who are allowed to act in loco parents but who are often in no way connected with their wirds and have no control over them and the want of well qualified resident superintendents for the messes it is hoped in time to establish sufficient college hostels to accommodate all students who do not live with their parents or natural guardians. Students require suitable accommodation strict oversight quietness for study care in sixchies and freedom from domestic wornes, and only in hostels can these wants be sufficiently supplied." The Lieutenant Governor of the Punjab be lives thri a system of denominational hostels may meet the difficulty of religious instruction.

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The examira tion system the latter

5. The policy of Lord Curzon's government struck a blow at the system of excessive examinations in India. The only school examinations ordinarily recognised are the in state test that closes the primary course and that which closes the complete school life. College life is still largely a preparation for university examinations. Opinion in some quarters continues to mourn the abolition of examinations at intermediate stages of the school career here and there linger vestiges of the old system. On the whole however, the change has undoubtedly been for good. The further problem of the nature of the test that should close the secondary school course has exercised the mind- of educationists. It is recognised that the matriculations of the universities suffer from the difficulty of dealing with unmanageable numbers of candidates and from the defects inherent in external examinations. Bombay alrea is 1 ad its school final examination recognised for entrance to the public service but not to the university. Madras and the United Provinces have institute a system during the period also Burma and the Central Provinces where however the attempt has not been attended with success. The object of these schemes (which will be described 3th,

length in chapter VII) is to place the test in the hands of persons actually cognisant of the schools to give due weight to the record of the pupil and to introduce oral and practical tests as an adjunct to written papers. Six A. Bourne says of the system in Madras that the secondary school certificate records not only the degree of success attained in a public examination, but also the work done in school for not less than three years, and the characters and aptitudes of the holders as manifested during the same period. The scheme is reported to have had great success and is described in the resolution of the Local Government as perhaps the most striking reform of the quinquennum.

IV -Main events of the period

56 The preceding section has indicated the main trend of development. The ensuing chapters will treat of education and its progress under various heads. In order to provide a synoptic view, some of the main events of the last five years (exclusive of those already mentioned) are recited below.

57 The continued effect of the legislation of 1904 has been visible in University and university and collegiate education The exercise of the powers thereby con college educa ferred on the universities has added to the efficiency of the colleges The tion universities themselves have been busied with (in some cases) the consolidation of the courses of study, with the initiation of teaching arrangements in post graduate work, and with the provision of suitable buildings for their meetings, their libraries or their examinations. In the meantime, new ideals of university education have arisen which bode far reaching changes in the future The Hindus and the Muhammadans have proposed denominational universities at Benares and Aligarh A scheme is being formulated for a teaching and local university at Dacca, and separate universities have been suggested elsewhere The size of colleges has increased The attainment of higher standards has added largely to their cost Among single incidents the most striking is undoubtedly the movement for collegiate education among the frontier tribes. This has already taken a most practical form, and, at the opening of the buildings destined to grow into the Islamia College of Peshawar, Sir Harcourt Butler pointed out the deep significance of this "Standing here, on the most famous highway of Asia, facing the mouth of the Khyber Pass I confess that my imagination is powerfully affected at the prospect of the enlightenment which will radiate from this school and college, not only in this province and along the frontier, but far into the recesses of Asia"

view that, for purposes of the university, the high school course should be extended by at least one year Though progress has been made in secondary education, much still remains to be done, and glaring defects have vet to be removed

Primary

education

59 Apart from the interest exhibited in primary education, the main features of the period have been the reorganisation of courses in certain provinces, the establishment of the board school system in the districts of Lastern Bengal, and the complete abolition of fees in the North West Frontier Province The Government of India have requested that a portion of the grants made should be devoted to the extension of the principle of free elementary education While rejecting the proposals for compulsory attendance at schools, they have urged the extension of facilities and a system of surveys which should place education of a simple kind within the reach of all who desire it, and they have emphasised their wishes in this matter by the provision of grants which will serve to facilitate a beginning in a more extensive and systematic distribution of institutions. While educational surveys are expected to produce a larger extension of elementary instruction attempts are being made to improve the standard by fixing higher rates of pay for teachers, increasing the facilities for training and gradually enlarg-ing the agency for inspection How essential are these reforms and how futile would be a rapid and cherp expansion without such precautions is demonstrated by the fact that, even as things are, 39 per cent of those educated relapse within a few years into illiteracy 60 Professional education has witnessed a certain amount of improve ment and concentration in law classes and institutions. A new medical

Professional. and technical education

college has been opened at Lucknow, and a new departure is under contem plation at Delhi in the shape of a medical college for women The agricul fural college at Campore has been developed and a new college opened at Lyallpur In 1911 the Indian Institute of Science opened at Bangalore The numbers under technical and industrial education have steadily risen resolution of the Government of Bombay speaks of the remarkable progress made in this branch of education, especially in the school of art, where architectural and pottery sections have been developed. The resolution, however, complains that "there is a general lack of co-ordination between the courses and standards of the several technical institutions due to the absence of any effective controlling authority ' A series of conferences in several provinces have framed correlated schemes of development, and depart ments of industry have been established. In 1912 a small committee travelled through India to enquire how technical institutions can be brought into closer touch and more practical relations with the employers of labour

Training of teachers

about ten scholarships are awarded to Indians for the study of technical subjects in Europe A college of commerce is projected at Bombay 61 There has been considerable progress in the training of teachers Every large province is now provided with one or more secondary training colleges new additions during the period being in Bengal and Eastern Bengal and Assam where previously facilities for this kind of training were entirely lacking, in the Central Provinces, where the institution has been developed into a college and in the United Provinces, where a cond college has arisen at Lucknow

in India A committee in England has examined the scheme under which

Oriental studies

62 The feeling that oriental studies had fullen into some neglect was recognised by the summoning of a conference at Simla in 1911 Meanwhile. attention has been paid to the subject in Madras and boards of examinations

I ducation of

have done much to organise and encourage indigenous schools of study, especially in Bengal and the United Provinces 63 The number of girls at school has increased during the quinquennium by 477 per cent. The resolution on the Bombay report while remarking on the large numerical rate of increase says that there is an almost general

opinion among educational officers that the real advance is incommensurate with the efforts and attention bestowed, and that the instruction which is

quils

being imparted to girls especially in the advanced schools is proceeding on wrong lines and is not calculated to produce the intellectual and physical improvement for which there is need

64 The special colleges for chiefs continue to flourish. It is characteris, Education of tic of the times that there is now a general desire to see the courses at these chiefs, etc institutions critied on to a more advanced standard. After the close of the quinquinnium a conference was held to consider a scheme for a higher college.

In Sind there has been a movement for the establishment of special madrassas and hostels for the education of the sons of zamindars

65 Liberal grants have been made for the education of Europeans and Education of the domiciled community. An important conference on this subject was held Europeans in Simla in 1912. The conclusions of this body and the funds now being collected in England are expected to result in a substantial advance.

66 The number of Muhammadans at school has increased by 32 3 per Education of cent but is still incommensurate in higher and colleginate institutions. In Muhammad primary education the community holds its own and Muhammadan guits now ans go more readily to school. Awakening interest is evinced in the opening of certain special Muhammadan institutions—such as the Islamia colleges at Lahore and Peshawar and a few high schools—and the proposal for a university at Alicarh.

67 The precise increase of education among backward classes is difficult Education to estimate. In Madras literacy among the Paraiyans has tribiled. In among Bombhy in almost general spread of education has taken place in these depressed classes amounting to an increase among those under instruction of 72 per classes cent for aboriginals and 6 64 per cent for depressed classes. Vast numbers of these tribes and castes however are still untouched by education. Special inspecting agencies are required and the provision of trained teachers from the tribes themselves. Much may be hoped from the general spread of schools.

68 No account of the educational events of this quinquennium would be The royal complete without mention of the first visit of a British Sovereign toward to India and of the Delhi Durbar. The Government of India struck over two millions of medallions for presentation to school children and these were everely purchased for distribution by local bodies and private mann gers. The announcement of a recurring grant for truly popular education was one of the principal boons announced at the Durbar. Arrangements were made for the attendance at that everemony of large numbers of pupils who clud school by school in different coloured head dresses gave to the vast unditorium the appearance of a variegated tulip bed. His Imperial Majesty's reply to the address from the Calcutt University and the Queen Impress visit to the Majo College emphasised their interest in the educational welfare of the country. The memory of the Durbar will be perpetuated in schools by the celebration of its anniversity.

As to local celebrations of the occasion an account is given by Mr de la Tosse from which the following passage is taken —

The local celebrations excited the liveliest enthusiasm and the occasion specially brought home to the minds of school boys and school girls by the gruit of a holiday and the presentation of coronation medallions unitable testivities. The expense was borne partly by government and partly by local bords in some instances relieved by private voluntary contributions. The labour of distributing Durbar meduls—in all over five lakis—was ungrudgingly undertiken by my office. The medals were much appreciated by the children and will remain a symbol of the gracious good will and favour of the Crown to its most distant and youngest subjects. Little bands of school boys from different districts had the privilege of attending the Imperial Durbar and the detachments showed up well in their neat cestumes and various coloured safes

A special Muhammadun deputy inspector of Bombay remarks on the deep impression of love and loyalty evoked by the celebrations in Urdu schools 'The boarders of one of the schools for depressed classes in the same

presidency were taken to Bombay on the occasion of Their Imperial Majesties' arrival at the expense of a private individual. And throughout the whole country the royal visit was celebrated in schools with the utmost enthusiasm

His Imperial Majesty while in India gave emphatic and practical assurance of his interest in the educational welfare of his subjects. The grants announced at the Royal Durbar have been followed by other liberal allocations.

CHAPTER IV CONTROLLING AGENCIES

I -General

69 The control of education in India is somewhat complicated. There is General a department of education in the Government of India and there are depart control ments of public instruction in the provinces. These are charged with the work of education. It must not however be supposed that their administrative powers are unlimited still less that they are the main agency for imparting instruction. Each department is subject to the government and its operations are co-ordinated with the general policy of government. Subject to this general condition each department under a Local Government advises as to educational needs administers the funds allotted inspects examines disburses grants in aid frames rules and enforces them prescribes curricula and maintains a few educational institutions. But its controlling powers are shared in the matter of higher education by the curi authorities and the local and municipal boards. The great majority of institutions are maintained by the boards or by private agencies. The latter may receive and either from the department or from the board. This chapter contains a brief description of these authorities.

70 The formation during the quinquénnium of a department of educi. Department of tion in the Government of India was a signal recognition of the importance Educati n in which this branch of public business is beginning to assume. The new depart the Government ment was created in 1910 and got to work in the beginning of 1911. Educa of India tion had previously competed for the attention of the Home Department along with a host of other subjects. The department of education also besides its main business deals with saintation local self government ecclesiastical matters archicology and museums. The post of Director

General of Education in India has been abolished or rather absorbed into the new department which comprises besides the Member of Council two

secretaries and an assistant secretary

71 Each province has a department of public instruction, save the small Provincial province of Coorg where inspection etc. is managed from Madrus. In department January 1911 a department was formed in the North West Trontier Pro of jull of vince where previously the cures of archaeology and education were combined instruction in the same office, and the inspecting agency etc. had been included in the Punjab service. A director has now been appointed for the North West.

Punjab service A director has now been appointed for the North West Frontier Province and Baluchistan and at the conclusion of the quinquen num proposals had been submitted for a separate cadre of officers

A provincial department consists of a director of public instruction a certain number of inspectors with their staff professors of colleges and teachers in schools. The director administers the denartment. The question was discussed during the quipaquenium whether he should be given the struss of a secretary to government (in the Punjab he already is an under secretary) and was decided in the negative mainly because it was deemed and the negative mainly because it was deemed advisable to leave him unfettered in his capicaty of an administrative and inspecting officer supervising the work of the department and moving alout ong educational institutions. The inspectors professors and teachers are grouped in various services. The teachers are mainly employed in the higher institutions and even here represent but a small part of the toral number the majority being in private employ while nearly all the teachers of primary schools are bound or municipal servints or word in undefinitionism.

II -The verrices

72 The services in which these officers are placed are the Indian educational service the provincial educational service the subordinate and the services

lower subordinate service. Some hold posts outside any service. The exist ence of the two higher services in their present form dated from 1896. Up full that time Europeans and a few Indians were classed together in a graded service (with increments of pay in each grade) rising from Rs 500 to Rs 1 500 Originally they all drew pay at the same rates according to their grade During the time of Lord Ripon the pay of Indians was reduced to two thirds of that of Europeans in the same grade The Public Services Commission of 1896 87 resulted in the formation of provincial services. The reorganisation was not carried out till 1896 and virtually resulted in the separation of Furoneaus and Indians The former are generally placed in the Indian educational service the qualification for which is recruitment in England by the Secre ary of State—a mode of appointment open to Indians but applied to them only three times since the reorganisation. The latter are placed in the provincial service and here the separation is not so complete for this service contains a certain number of Europeans recruited in India distinction has given rise to comment. The improvement of the terms of both the Indian and provincial educational services (including the desirability of making proportions from the latter to the former) I as for some time been under consideration by the Government of India and Local Governments, but (save for the introduction of some temporary though by no means unsubstantial measures of alleviation) has been held in abevance rending the deliberations of the Royal Commission on the Public Services in India now sitting principle of this division of services rests on the method of recruitment The provincial service was intended to represent side by side with the Indian educational service the highest class of employment open to natives of India Both of these branches that recruited in England and that re cruited in India together form the superior service of the education depart ernited in finite together form the expected service of the conditions of employment is regards pay leave and service for pension"

Formation of the services

- 73 The conditions of the Indian educational service are similar through out India Those of the locally recruited services vary from province to province The following may be taken as a general description allowance being made (save in the Indian educational service) for provincial variations—
 - (i) The Indian educational service is recruited by the Secretary of State in England and is composed almost entirely of Europeans. Its members fill the posts of inspectors principals professors and herdmasters. Picked officers are made directors. The pay is R 5 500 a month rising after ten ung four allowances for Chiefs Colleges) the grand of allowances of two grades (excluding four allowances for Chiefs Colleges) the grand professors and here grade of allowance after fifteen years service if the salary of any officer his not within that after fifteen years service if the salary of any officer his not within that the period exceeded Rs 1000 a month. Exchange compensation is also given though Rs 2500 a month. Full pension is ordinarily earned after 30 years' service and amounts to £4371 of a vear. A director of approved service receives about Rs 300 to about Rs 500 or Rs 600 a month. Their pension is ordinarily canned after 30 years' service £020 a vear. The terms for fidics are special their pay is generally from collated according to pay.
 - (ii) The proxincial service is recruited by the Local Governments and is composed mainly of Indians. It comprises inspectors assistant and joint inspectors principals professors headmasters of collegate high schools, bradinasters of some normal schools etc. The arrangement of the services viries. In several provinces there is real grading from Rs 200 to Rs 700 Central Provinces where it is Rs 277 and in Burma where it is Rs 404 a month. Here also the service qualifying for full pension is 30 years. The maximum pension is Rs 300 a month. It is calculated as usual on three vears average emoluments.
- (111) The subordinate service is similarly recruited by Local Governments and is composed almost wholly of Indians filling the posts of deputy and

sub inspector lecturer headmaster assistant teacher etc. The formation varies greatly. In some provinces there are eight grades ranging from Rs 50 to Rs 250 a month (In the Punjab the service contains two posts on Rs 400 a month). These services contain very large numbers of officers

- (10) The lower subordinate service exists only in certain provinces and contains officers of lower qualifications generally on less than Rs 50 a month The average monthly pay in the subordinate and lower subordinate services taken together is Rs 55 a month
- (v) Outside posts are generally created for officers performing special duties
- 74 At the close of the quinquennum there are ten directors of public Numbers in the instruction There are also (excluding the fourteen posts in Chiefs Colleges) services 175 officers in the Indian educational service the average monthly pay being about Rs 783 (le s than the ectuarral by reason of the fact that many officers have not reached the Rs 1000 grade). Of these four are Indians. There are 380 officers in the provincial service (of whom 328 are Indians and some of the others members of the domiciled community), the average pay is Rs 316 a month. The subordinate and lower subordinate services contain 7811 officers (of whom 200 were Europeans or members of the domiciled community) drawing an average pay of Rs 55 a month. There are also 465 ungraded posts (of which 43 are held by Europeans or members of the domiciled conducted community) on an average pay of somewhat or Rs 75 a month and 104 posts which cumot be classified (of which 90 are held by Indians) on an average pay of slightly over Rs 152 a month. The total number of officers

in these services is thus 8 945

subordinate services

75 The conditions of service in the education departments have been Improvement under discussion during the quinquennium. Among the questions that have of conditions come forward are the scale of pay and the number of years qualifying for person in the Indian educational service the slowness of promotion and the impossibility of advancement beyond the highest grade in the provincial service. The solution of these problems as stated above has had to be postponed temporary measures of relief being devised for the provincial service. In some provinces too improvement has been found essential in the

tenerally speaking the scale of pay is low and the grading inferior to that worl ed out by Sii David Barbour affords tardy promotion. In 1906 the Government of India suggested in connection with the reform of second ary education a minimum salary for teachers of English of Rs 40 rising to Rs 400 in the case of headmisters of high schools The Local Governments have presented schemes of improvement. The following have been under consideration or sanctioned during the quinquennium The Government of Madras have proposed to raise the privof assistant masters but the scheme has not yet been sanctioned. In Bombay the pay of headmasters has been revised at a cost of Rs 16 560 a year at the close of the period a seleme for raising the pay of assistant teachers was recommended at an annual cost of Rs 31 140 and sanction has since been accorded. In Bengal the terms of the lower subordinate service have failed to give satisfaction. The committee which met in Calcutta in 1908 to consider secondary education made recom mendations for the amelioration of the lower services in that I rovince and in Pastern Bengal and Assim and improvements are understood to be under consideration. The provincial and subordinate services in Eastern Bengal were during the period separated from the e in Bengal and combined with the Assum officers with beneficial results to those included in them. But the lower subordinate service of l'astern Bengal was deen ed so unsatisfactors that it was decided not to include in it the corresponding officers in Assam The rates of pay for high school teachers in the United Provinces have been raised the additional cost of Rs 1 10 308 a veri includes the expense of increasing the staff as well as the jax. The properts of the subordinate service in the Punjah have been improve I at a cost which will eventually ri e to Rs 91 820 a year A scheme has been drawn up for Burma and is under consideration The administration of the Central Provinces presented an exhaustive scheme for the complete reorganisation of the upper subordinate

service at an annual cost of Rs 36 012 and the formation of a lower subordi note service at an approal cost of Rs. 2.95.200, sanction has since been given as Changes an I additions have also been sanctioned in the tunds may permit ser ice in the North West Frontier Province which will cost Rs 16 636 a TOTE 76 These services however form but a small section of the bost of Teachers not

emi lo i

teachers who number 215 518 Of these only 7 598 are in government service in covernment teachers who number 215 316 Of these only 1 353 are in greenments extract of 31 979 are in the employ of boards 9 121 in that of municipal bodies and 146 520 belong to privately managed schools. The conditions upon which the last three clases work are less favourable than in the case of government This will have been gathered as regards secondary teachers from garagraph 21 of the resolution and as regards primary teachers from the fact that part of the present policy is the raising of the minimum pay for those who are trained to Rs 12 a month But the principal di qualification is the ceneral (though not universal) want of some provision for old age Govern ment servants look forward to their pension. In some areas board school teachers also have pensions. But generally speaking these and teachers incrivate employ have no prospect of pension and no contribution fund. This is a matter in which reform is urgently called for

III -Inspection

Grades and kn ds of the inspectors

77 The inspecting agency is with minor exceptions included in the government services. Nomenclatures differ in different provinces. But the tollowing rough generalisation (with exceptions some of which will be noticed in appendix II) holds good throughout India The director besides admir s terin, the department inspects colleges and so far as possible samples of other kinds of institution. Inspectors included in the Indian or provincial services inspect high schools training insutution and samples of other in titutions throughout a commissioner's division or a collection of districts They are aided by assistant inspectors (in the provincial service) who are in some provinces specially charged with the surervision of middle schools Deputy inspectors who are generally found in the higher grides of the subordinate service inspect middle and primary schools and the smaller train ing institutions throughout a district or sometimes when the district is large throughout a part of it. They are in close relation with the district magis trate (and to some extent subject to his or lers) and with the district board They are assisted by sub inspectors who are included in the subordinate service. In some provinces yet other inspecting agents are found-super visors inspe ting pandits or sub-assistant inspectors. Thus a hierarchy of inspecting authorities is built up mainly under the orders of the departments of public instruction partly under that of the civil authorities 78 In addition to the ordinary inspecting staff for boys schools there are

78 In addition to the ordinary imperfers and female assistants for girls schools and also in pectors for European schools The existence of such agencies is and also in pectors for European schools The existence of such agencies is necessary to the welfare of the particular kind of institution concerned and is much appreciated. There has been a tendency towards the establishment of inspecting pos's for the supervision of technical and industrial schools or even towards the creation of separate departments of industry charged with the supervision of all or some of these institutions. In some provinces a recial staff for the inspection of Muhamma lan schools has been found neces ary and Bengal possesses special inspecting facilities for areas inhabited by aboriginals and hill tribes. It will be convenient to mention these inspectors in greater detail in the chapters dealing with the subjects concerned But special inspectors for particular subjects in ordinary schools fall into a different category and something will be said of them presently

ing agency

"9 The total cost (excluding direction) of the inspecting agency is Rs. 40 So. 534 being 22 per cent of the total expenditure on education and "6 per cert of the direct cost. The percentage of the cost to the total cost in the virio is provinces is in Madras 5.4 in Bombar 3.9 in Bengal 5.1 in Cost of inspect the I nited Provinces 49 in the Punjab 42 in Burn 476 in Eastern Bengal and Assam 60 in the Central Provinces 64 in Coorg 48 in the North West Frontier I roving 29 The cost of inspection in any province obviously

depends not merely on the size and pay of the agency employed, but also upon the number of the schools and their efficiency as judged from the point of view of expenditure upon them Where the average direct expenditure upon each institution is low, the proportion debitable to inspection must be relatively high On the other hand where schools are numerous the cost of inspection per institution naturally talls Conclusions drawn from the percentages just shown must be modified in the light of this consideration A calculation has been made showing the cost per school of inspection and direction in each province from a comparison of which with the percentages three different cases arise In the North West Frontier Province, where, owing to the liberal scale on which schools are financed the percentage of cost of inspec tion to educational expenditure is lowest, the cost of inspection and direction per institution is, by reason of the paucity of schools, far higher than in any other province, and actually amounts to two fifths of the total average cost of an institution in Bengal To a lesser extent, the same is the case in the Punjab, where the percentage is moderate, the cost per institution very high. A middle position is occupied by Burma and the Central Provinces, where both percentage and average cost are high by reason of the facts that schools are comparatively few and their scale of maintenance satisfactory The opposite is the case in provinces which are thickly schooled, like Madras, Bengal and Eastern Bengal and Assam In all these cases the percentage of the cost of inspection is high. But the cost per school (especially in the two Bengals) is lower than elsewhere. It may be noticed as a significant fact that the cost of direction and inspection per institution in the North West Frontier Province is exactly six times what it is in Eastern Bengal and Assam

- 80 The inspecting agency presents its own problems. A wise treatment Changes in of those problems and a well thought out organisation of the service reacts organisation favourably upon the schools. The quinquentium has been marked by reform and duties in the system. But in several matters reform is incomplete and questions are still outstanding.
- 81 In the matter of organisation, there has first been an increase in the (a) Increase in inspecting agency The areas to be covered by the superior staff were numbers obviously excessive The number of institutions assigned, in some parts of the country, to the subordinate staff is so great as to render effective inspec tion impossible. The changing ideas on the duties of inspectors and the recognition of instruction as a part of their work, have placed an additional strain upon the officers In these circumstances, in the present condition of public opinion, with teachers who are largely untrained, committees that have not everywhere inspired confidence and schools isolated in remote places, the inspecting staff is still in many tracts inadequate, and is far from allow ing one officer to every 80 or 100 schools, which is generally regarded as the maximum which he can manage (As an example, it may be stated that the average number of schools in a sub inspector's charge in each of the three divisions of Eastern Bengal is 185, 138 and 158 respectively) On the other hand, increase of the lower staff is unavailing unless there are sufficient superior officers to supervise its operations
- 82 Secondly, the broader duties assigned demand that a superior type (b) Transfer of officer be attached to the service. In some provinces, the subordinate of staff to inspecting staff had not the status and privileges of government servants government. The period under review has seen the transfer of sub inspectors in Bengal and Assam and of supervisors of elementary schools in Madras, also the re transfer to the department of deputy and sub inspectors in the United Provinces. Previously these officers were the servants of local bodies. On the other hand, the interior agencies in Burma and in Eastern Bengal and Assam are being abolished and replaced by better qualified and opeter prid officers.
- 83 Thirdly, efforts have been made to ensure better co-ordination. In (c) Cc-ordinathe majority of provinces (exceptions are Madras, where there are no commis tion sioners' divisions and Burma where the circles are still of excessive size) the inspectors circle now corresponds with a revenue division. Thus the commissioner has at hand an eductional adviser. A broader view (already

separate kinds of schools These have now been extended. They embrace as noticed above girls schools and schools for Europeans The quinquennium has witnessed increase not only in the numbers but also in the independence and re ponsibility of the inspectresses and their assistants Secondly schools which are a part of the general system but of a special type have in some provinces been placed under special agencies. Thus Madras Bengal and the United Provinces have received during the period separate inspectors for technical and industrial schools Madras and Burma have arranged for the supervision of normal schools by inspectors who also control European schools (This is just a case where such special agencies are apt to run coun ter to the ordinary agency and the system in Madras has undergone modifica tion accordingly) Arrangements have been made in certain areas for Muhammadan and aboriginal schools These will be described in due course Thirdly a need has arisen for inspectors of special subjects in the ordinary schools. In the United Provinces a beginning was made with specialist inspectors in 1911 There are now four such inspectors in the provincial service one for Sanskrit one for Arabic and Persian one for science and one for drawing and manual training Where possible they male joint inspec tions with the divisional inspector But as this is difficult to arrange they spend most of their time in visiting schools alone sending reports to the director and to the inspector the latter of whom takes necessary action on By this means says Mr de la Fosse aspects of school work which did not always receive adequate attention are now better lool ed into approved methods of teaching are advocated teachers stimulated and encour aged and good work discriminated from bad. Improvements are certainly being effected by the efforts of these officers but the most important work they have done is to bring to light the real state of tuition in these subjects of instruction While this was imperfectly known attempts at improvement were liable to be rather like groping in the dark. In the Central Provinces were liable to be rather like groping in the dark. In the Central Provinces a similar proposal has been made. The Government of the Punjab has proposed an inspector of drawing and manual training and that of Madras wishes to create two instructors in the latter subject

86 Finally the quinquennium has seen the beginning of a demand for (f) Medical medical inspection-a matter in which India has hitherto been peculiarly inspection backward In the Bombay report the following remarks occur - With a few honourable exceptions in no school is there a systematic medical inspec tion of pupils In England it has been recognised as being of vital import ance and must eventually receive attention in India A moment's reflection will show what immense good can be done by the detection and prevention of vicious tendencies by care of the eyes and by precautions against fevers and there are many other opportunities for useful action In the Punjab too attention have recently been directed to the previlence of physical defects among school pupils. "Evidence collected in 1911 by Mr. Western of the Cambridge Mission and by Dr. Girdhari Lal Batta pointed to conditions of health which though largely trace-ble to faulty home upbringing might be within the power of school sutherities to improve The question was discussed at length in the last educational conference which recommended the appointment of a school medical officer to visit all the board schools for the province to organise and co ordinate enquiries Meanwhile sporadic attempts have been made to collect information which may bring home to parents and others the need of taking reasonable precautions against ill health and of arresting in good time tendencies which if overlooked may have serious The Gurdaspur district board has appointed a medical future consequences off cer to visit all the board schools and advise and report on the health of the The Health Officer at Amritsar has instituted a medical examina tion of school pupils in the town A large number of pupils in the Lahore schools have been medically tested Weight and measurements are regularly taken and recorded in many institutions Definite results can hardly be looked for as yet but the fact that public opinion is being aroused on this matter is a good angury for the future Two interesting notes on the sub ject accompany the director's report The matter is one on which the recent resolution of the Government of India is emphatic and it is to be hoped that combined with instruction in educational hygiene this branch will shortly see a distinct development

Details of nronneral msnectina

agencies

87 Those who desire to pursue into detail the changes which have been made in different provinces during the quinquennium and the organisation and members of the provincial staffs are referred to appendix II to which is also attached a table showing the numbers of inspecting officers of various kinds in the provinces

IV -Other agencies

88. The civil authorities as in general charge of all branches of adminis (a) Civil tration in their surreductions are concerned with education. More especially officers is the collector (or deputy commissioner) brought into contact with primary education through his relation with the loard. The following de scription is taken from the Burma report — The commissioner or deputy commissioner respectively is responsible for the state of education in his division or district His responsibility is exercised through the educational officers concerned and (except in municipal schools) is of a general nature questions of appointment curricula forms and other technical matters being left to the education department. District and divisional officers are con sulted in particular by the department in regard to the expansion of educa tion primary or secondary the choice of selools and localities suitable for schools the appointment of school committees and so forth. The educational sections of municipal and district cess fund budgets are supervised by these sections of minimizar and under government determine the particular sums to be desired annually from local funds to education in the areas concerned Systems vary in different provinces. Where administrative problems are complicated and the worl highly exacting the civil officer has less time to give to educational problems opportunities for mutual discussion are rarer and action not fully preconcerted may eventuate in differences of opinion On the whole however (even where as is frequently the case the deputy inspector is partly the servant of the inspector partly that of the magistrate) the participation of the executive and the educational officer in educational worl is beneficial as well as necessary Mr Wright remarl s that the dangers attendant on the system are obvious in theory In practice he adds "it works admirably I know of no case of friction between a revenue officer and an officer of the department. A united desire to advance education is potent to disperse petty differences of opinion and the influence on and direct stimulus to education that a deputy commissioner can bring to bear is very Both to deputy commissioners and to commissioners the department owes a debt for steady support and assistance in all branches of work

bodies

(11) Local

give valuable assistance in inspecting schools 89 The bulk of elementary education is in the hands of municipal and Not only do they maintain schools 'hey also disburse grants to schools maintained by private bodies or persons. This responsibility is imposed on them by law and their power defined and limited by rules framed

advance of recent years could not have been effected without their co Sub divisional off cers tabsildars and naib tabsildars frequently

under the Acts The question of finance is of vital importance but will be treated of in tle chapter on primary education. Here it will suffice to say that some per centage of the income of a board or the income derived from certain sources or a sum fixed from time to time is to be expended on elementary education that the officers of the departments generally scrutimise the educational I of tion of the board budgets and that boards are not supposed to spend money on tion of the board hingets and that beards are not supposed to spend money of secondary education and the claims of primary education has been satisfied as a matter of fact municipal and district boards at present support 12 colleges 1,220 secondary schools and 27 864 primary sol ools and these figures exclude the schools which are vided from local funds. As regards control the duties of the boards generally comprise the establishment maintenurge and closure of their own schools the appointment and dismissal of staff and tle disbursal of aid to privately managed schools In the discharge of these functions they are guided by rules issued by the Local Governments under the Gererally speaking the closure of a school requires sanction by the departs ent or at least sufficient notice to permit of an appeal to the inspector Tre curriculum is that prescribe by government. The scale of grant to aided institutions must generally be in accordance with the departmental rules Adherence to these rules is secured by inspection. In Bengal the United Provinces and Eastern Bengal and Assam part of the inspecting staff was at the beginning of the period under leview in the service of the boards As stated above this has now been almost entirely changed Turthermore the deputy inspector is generally a member of the district board and is able to give advice and bring irregularities to notic? (Mr Prothero notes that the deputy inspector of Murshidabad was excluded from the board in 1911 12 and comments on this fact)

90 The rules differ in different provinces In Madras the administr Tleir powers tive powers vested in the local and taluk boards are extensive those permitted to municipal boards are less so In Bombay the municipal board has consider able freedom while the administration of the local board schools is really carried on by the department which appoints and dismisses teachers fixes their pay etc. In Bengal the system of board chools is practically unknown and has only recently been initiated in Easte n Bengal though it is prevalent in Assam but the boards in the Bengals exercise considerable influence through the distribution of grants in aid. In the United Provinces and the Punjub there are many board schools and the boards have effective powers devolved upon them. In Burma there are no district boards but municipal boards manage schools and in Lower Burn a a number of district cass schools have been opened under the joint management of the deputy commissioner and the department In the Central Pro inces the jowers of the district councils (as they are there called) are similar to those held by the same bodies in other provinces save that they are ordinarily required to employ certifi cated teachers and that the department exercises cortain powers of punish ment dismissal and transier In the North West Frontier Province also district and municipal boards manage schools. It should be explained that the district board or council exercises jurisdiction (as its name implies) over a district. In Assam the powers described above are vested in local boards whose jurisdiction is conterminous with a sub-division of a district other provinces the local or taluk boards are generally to a certain extert subordinated to the district board and exercise in the matter of education

powers devolved on them by the latter 91 A natural comment on board administration (which however should T) or value not necessarily apply to municipal boards) is that the members often have little or no knowledge of the villages where the schools are situated or the conditions and work of the schools themselves Mr de la Fosse while dwel ling on the value of inspection and the ounce of personal knowledge which is worth tons of written reports to the school administrator and while admitting the display of increased energy on the part of nembers states that this is due mainly to the credit of those who are officials Non officials in some dis tricts have shown commendable activity in this matter but on the whole they interpret their duty with considerable latitude and in some places do practi

cally nothing at all It is said that this apathy is especially characteristic of members who live in villages and who could do so much to help on educa The inspector of Agra has calculated that if the elected memlers had carried out the minimum duties required by the rules their inspections would have numbered 2 126 instead of 611 in his division

92 Private agencies are a factor of great importance in the educational (iii) Private system They may be placed in three clas a-I uropean or American mis agencies sions Indian societies or committees and individual managers who ar generally themselves also the teachers in the schools

93 The history of early mission effort has already been briefly indicated Missi as in this volume and is treated at greater length in Mr Nathan's review for 1898 1902. Missionary societies of all denominations, said Mr Nathan

have contributed to the work and at the present day missions connected with the Church of England with the Roman Catholic Church with the Church of Scotland with the I ree Church with the We levan with the Luther ins with the Baptists and with other sects have their schools for the instruction of Mission societies maintain college and secon lary schools Their work in establishing well supervised to tels is particularly appreciated They also maintain prir ary schools among special section of the popul lation -hill tribes or brekward classes In the Khasi hills of 1s am a Wel h

mission manages the great majority of the primary schools receiving a lump grant from government In the Punjab and elsewhere the Salvation Arm) is working among the depressed classes And the Oxford Mission and other bodies are doing admirable work among the Namasudras The part played by mission agencies in Bengal writes Mr Prothero is increasing in efficiency and importance especially in female education and in educational work among aboriginal races. Their work among low caste children in the Central I rovinces is commended Further a considerable number of Luropean schools are under mission management. The work of these bodies con stitutes an element of strength in the educational system of the country They furnish a body of men well educated imbued with fresh ideas from Europe or America endowed with the missionary spirit, self sacrificing reliable The early fears of proselytisation have vanished and there are few parents whom religious scruples would deter from sending their children to a mission school It would be difficult to imagine an agency more helpful to government more trusted by the community and more wholesome in its educational influence

Other societies

94 Societies may be roughly classed as those which spread their influence over large areas and those that confine their operations to a single institution. To the former class belong the denominational bodies which have become a factor in the Punjab—the Arya Samaj and the Chief Khalsa Diwan etc. These support secondarly and primary, schools. To the latter belong local committees which generally devote themselves to maintaining a college or a high school. These institutions were often indistinguishable from schools run by the staff or others as a commercial speculition for private profit. The Bengal report ventures the assertion that this is now largely a thing of the past

Proprietary schools 93 Thirdly come the schools which are confessedly maintained by one or more members of the staff as a means of livelihood. Some secondary (probably a good many middle) schools still exist of this kind with or without a faineant committee. But the system chiefly obtains among small elementary schools. A teacher will set up in a village. He gathers together a few children into what is known as a venture school. Sometimes the teacher proves inchicient or the people are callous and for this or some other reason the school perishes. If it continues the deputy inspector takes notice of it and rings it to the attention of the board. The teacher then receives a small grant and subsists on this the fees and such presents as le receives from the villagers. Thousands of elementary schools in the Bengals are of this type.

Growth of privately managed institutions 96 The institutions under private management comprise 120 colleges, with 23 161 students 4 594 secondary schools with 641 283 pupils 10 470 primary schools with 3070 823 pupils. These together with other schools of virious kinds aggregate 101 709 institutions with 3888 670 pupils. The numerical importance of these agencies may be gathered from Mr. Protheros report—Of the total number of educational institutions in Bengal which conform to recognised standards. 977 per cent, are under private manage

Financing of privately i anaged institutions 97 All these institutions whatever the nature of their management are eligible for grant provided the; fill a need and serve a useful purpose. They are generally supported partly from public funds partly from fees and subscriptions. The amounts contributed from these sources over a series of years are shown below.

Yes	Grant from public funds.	Fors.	S becraptions endos ments a d o.ber soprers.	Total
1996-67 1991 0 1996-97 1901-07 1906-07 1911 19	Es. 34,75 1°6 36,16 789 41,34,901 4,84,3 3 79 9 71 9" 94,* 1	Rs 43,76,172 59 06,2 5 68 25 74 76,51,713 88 76 597 1 1 % 111	Ra 36 87,930 43 91 3.6 26 13.2 7 67 56 5.1 7 03, 3 1 68 43 4 7	Ha. 114,70 664 1,39 14,249 165,78,542 1,89,95 637 4 64 940 3 38,22 463

It is interesting to notice that the funds from each source have grown almost part passu and that in each case they have approximately trebled since The schools "says Sir A Bourne speaking of privately managed a school are much too upt to depend for their maintenance exclu secondary school sively on fees and grants Few of them are endowed in the sense that Eng lish educational foundations are so and none are largely endowed. In some cases the endowment fund is of the nature of floating capital hable to be drawn upon at any moment of emergency however temporary The absence of endowments makes the schools too dependent on their fee collections and obliges them to have in mind not so much an ideal of education as the demands of the pupils and their parents

98 Privately managed institutions play a large part in higher educa Their value Some of them are highly satisfactory—some are not The Lieutenant Governor of the Punjab sounds a note of warning against the tendency on the part of certain private institutions to sacrifice quality to quantity and to foster secturian rivalries The report runs the resolution that buildings are sometimes run up in a hurry collapsing a little later Pupils are attracted by various objectionable methods such as the induce ment of a slack discipline One school with accommodation for 250 boys was found to have 800 In another a class room fit for 18 or 20 was made to hold 50 boys In the fi ld of primary education the aided system has proved on the whole a failure. The institutions thus maintained do not fulfil the conditions laid down in the despatch of 1854 and Mr de la Fosse complains that the reality rurely possesses any resemblance to the ideal origin ally conceived The elusiveness of the management the poor qualifications of the teacher the wretchedness of the school room the beggarliness or com plete absence of equipment, the starvation wages of the teacher need no further illustration unless the following touch from an inspection report of this year be added - In some cases the teachers hold school at their own houses or in the chaupals or set up a chhappar outside the village by begging for some straw and collecting something from boys to defray the cost of In most provinces (the Bengals excepted) a great mass of the elementary schools are under board management and the feeling in favour of this kind of school appears to be growing

99 The powers of the universities will be described in the ensuing (iv) Tle uni chapter As controlling agencies they are of high importance since they not versities only frame courses and conduct examinations for diplomas and degrees and iffiliate inspect and disaffiliate colleges but also pre cribe the curricula in the upper classes of high schools which prep re for the matriculation exami nation and with certain limitations confer and withdraw recognition of those schools Thus the universities exercise a large amount of influence upon the higher institutions of education though the management of those institutions is mainly in the hands of private managers and to some extent in those of government Their relation to the departments of public instruction is two On the one hand members of the departments are included (ex officio and otherwise) in the governing bodies of the universities. On the other hand the inspection of schools for purpose of recognition and the continu ance of recognition is mainly conducted by the departmental officers the recommendations of those officers are generally accepted and the application for recognition ordinarily passes through the official channels or is returned

to the department for report

recognition is the act of the department 100 Among other bodies which control or advise the best known is the (v) The educa educational syndicate in Burma This came into existence in 1881 and was a t onal synd cate few years later incorporated under Act AXI of 1860 Under the rules of the in Burma syndicate at consists of not more than 20 members This institution" says Mr Covernton has continued to act throughout the quinquennium as a con sultative council on educational questions its advice being sought by govern ment and the director of public instruction and as a board of examinations The only educational examinations undertaken by it are those of teachers and students desirous of obtaining certificates of proficiency in the theory of teaching. These examinations are carried out with the help of the depart

ments personnel and selected heads or teachers of recognised schools

The Madres University is exceptional there

(a) Commit toos etc

creation of a university for Burma will probably render necessary a revision of the constitution and position of the educational syndicate 101 Governor bodies and committees are formed for the detailed control

of individual institutions. These are of various kinds according as they are formed for government or non government schools for higher or for element The establishment of governing bodies for colleges and ary institutions managing committees for high schools is laid down in the Calcutta University regulations. In the major il colleges of Bengal, the governing bodies of government colleges are constituted of the commissioner and the district or sessions under the principal and the senior professor. In Calcutta govern ment colleges the constitution varies. These hodies possess limited but independent powers of control. At the Presidence and Subpur Colleges the scheme is being tried of giving them certain funds for disposal. In Eastern Bengal and Assam the governing bodies of government colleges are ordinards composed of the divisional commissioner the principal and the senior professor. The committees of privately managed institutions are variously constituted. There is a tendency to place primary schools under Where the teacher is in effect the proprietor, these are of little avail or non existent Where the board school system is implanted they are more effective especially in the Central Provinces where Mr Wright save that they are usually considered useful. Commendation is more general from Berar, where the rower to use the meame from fees and to settle ques tions of discipline and responsibility to a certain extent for the teachers per formance of his duties are highly appreciated and have produce I a growing interest on the part of the members

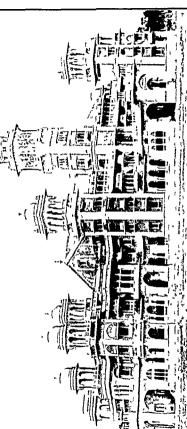
102 In some provinces there has been an attempt to place the organisa tion of girls education or the management of girls' schools under committees largely composed of ladies Tastern Bengal and Assam has a standing com mittee for the province which gives advice to government. In the Central Provinces "a beginning has been made in the formation of school committees composed of European and Indian ladies who take an active interest in the local curls schools

103 Visiting committees also exist for certain classes of institutionsgenerally those of a special kind. In Bengal a wide application has been strempted of this system 'These committees' says the report 'whose functions are purely advisory, were constituted by government resolution in 1903 and the system has been extended to secondary schools under boards The inspectors of Patra Bhagalpur and Orisea agree that these committees are of little practical use. The report of the inspector of the Presidence division on this point is colourless and merely gives numerical details of the meetings. The Burdwon discountly report gives no opinion to to the ments. of these committees There is no question that these bodies might do very useful work if they performed the duties assigned to them the difficults apparently is to induce them to take an interest in their work" experiment in Bengal which does not appear to have been attended with success is the formation of district committees of public instruction which were constituted appear to have done nothing and writes Mr Prothero under these circumstances it has been decided to abolish these institutions

and only formal orders are awaited on the subject'

(vu) Test bool 104 Text-book committees though their functions are mainly advisory comn a tees exercise a very considerable control over an important branch of educational werk They will receive treatment in chapter XXII

BOMBAY UNIVERSITY



UNIVERSITIES

2.1

OHAPTER V

UNIVERSITIES

I -General

100 The fite Indian universities are incorporated bodies owing their Character of constitution and powers to Acts of the legislature The Calcutta University the universal and those of Bombay and Madris were incorporated in 1857 the Punjab sites University in 1852 and the University of Allahubad in 1857. Each university is in the main the examining body for a number of affiliated colleges amounting in the case of Calcutta to 55. The principal examinations are the matriculation which admits pupils into colleges and the intermediate and brichelorship examinations which are field ordinarily at the conclusion of the second and the fourth years of a students career.

100 The Indian Universities Act of 1904 largely added to and partially The Act of repealed the previous laws on the subject. The pessage of that Bill through 1904 the Imperial Legislative Council was a stormy one. Even now when the gloomy prognostications then expressed have been flatified it is some times asserted that the Act officialised the universities whereas as pointed out by Mr. Orange it increased the proportion of elected Fellows in each senate save that of Allalabut. The Act regularised—it did not official see. On the contrary the universities have been stronger and more independent bodies since it was passed. For they found themselves endowed with two new powers—organised control over the constituent colleges (which lefore had been lacking) and functions of teaching especially of higher teaching. Furthermore the government demonstrated its good will towards them by Lord Curzons grants in 1904 to of five Inhis (to be partially utilised for privately minaged colleges) and again by assistance in 1912 amounting to sixteen lakhs nor recurring and three lakhs recurring

107 The past five years have witnessed a striking development made Organisation possible and suggested by the Act of 1004 along lines which will be described and courses in detail latter in this chapter. As regards the governing bodies that Act auring the reduced the number of Tellows insisted on a strong educational element set a quanquenamo limit to the period of office penalised neglect of duty (where formerly a fellowship was too often regarded as a dignified but sinecure title) and introduce i an organised system of election. The elective element has now been more widely introduced-or rather based upon a broader electorate Interest has been stimulated in the educational activities of the senates And the independence of those bodies has grown. The influence of the central organisation over its colleges has been strengthened through a more strict and orderly system of diffication. Inspection by the university has rendered that system effective and has introduced a unifying bond among the colleges Discrimination has been exercised in the granting of affiliation to colleges in different subjects. As regards the courses the quinquennium has seen their enrichment by the inclusion of new subjects Bombay has established a degree in commerce. Madras has framed oriental courses the creation of a medical faculty at Allahabad has given an impetus to the study of biology At the same time specialisation is becoming more and more a feature notably in the faculties of medicine and engineering There is a tendency to prescribe correlated schools of study-a change which is visible in several of the universities and notably at Bombay syllabuses are taking the place of mere prescription of examination subjects There I as been some adoption of the system of tests by compartments. As to university teaching the movement continues in some provinces of partially concentrating instruction in law at central institutions under the direct management of the universities. At Calcutta a system of post graduate lectures has been built up at the headquarters of the university for instruction up to the mastership degree and affiliation to that degree has been

silowed (and that in but few subjects) to only two colleges outside the metropolis. All-habad has added to the facilities for M.A study by organising courses and unstruction in economics and Latin. A still higher grade of teaching with a view to stimulating original research has been lostered by a few appointments of specialising professors. The new responsibilities in this respect which the Act devolved upon universities have thus not been neglected. But want of funds for founding churs and the uncertainty of any openings commensurate with the time and labour necessitated by higher study and research are still a drag on this form of university activity. The recent grains made by the Government of India and private liberality will help to remore the former obstacle the latter will gradually vanish with the growth of culture and the demand for specialisation which inevitably arrises with the advance of education to higher levels and the development of scientific pursuits. There has been remarkable activity in building and the universities are now generally possessed of worthy habitations though much still remains to be done in this direction and in the supply of fully countries.

Numerical progress during the quinquen num 103 The statistical advance of the universities during the quinquennium is briefly as follows —

is briefly as follows —			
_	1976-0 *	1911 19 †	
Colleges	176	179	
Pup ls	18 001	36 538	
Passes at the B A exa n nation	1 685	۰,41 ₀	
Passes at the B % exam nat on	30	240	
Un vers ty expend ture	Rs. 10 39 312	l s. 14 10,784	

The large increase of pupils and passes testifies to the growing demind for higher education. This has been met without sensibly enhancing the number of colleges. But the size and efficiency of the institutions have increased and it is in connection with them rather than the universities that advance in cost will be shown.

Criticisms on tl e university system 109 Such in outline has been the progress of the universit es under the stimulus of the reforms of 1904. Those reforms have proved fruitful and have been more than justified Their limitations were obvious even to those who carried them through Witnesses before the Commission of 1902 urged the creation of additional universities. This carried to its logical conclusion the adoption of a system of self-contained local universities—appeared to involve either a multiplication of centres incompatible with efficiency or a concentration which would have left outlying colleges stranded and would have aroused the strongest opposition Neither course appeared practical and (in the words of Mr Orange) "the principle of the federal university which examines those whom it has not taught received by the Act of 1904 a new lease of life. But with the rapidly growing interest now evinced in higher education it was impo sible that in ideal abandoned in England and elsewhere should remain unchallenged in India The quinquennial report from Bengal strikes this note in pointing out that the present type of university can more easily insist upon a uniform standard of attainments among its students but tends to grow too big for efficient control "A local university runs the passage is more adaptable to local ideals and can more easily provide for local requirements. The numbers are more manageable and allow of greater individual attention to the students on the part of the It can more easily fulfil teaching as well as examining functions It can more easily be made residential thus ensuring that the students should come under the influence of the university throughout their college life and

[•] Progress taken from the reports of Directors of Public Instruction.
• It goes taken from preceit from bod by the no recentive and from the calendara. The term of the progress of

not only in the lecture room. The local university can appeal more strongly to the benevolence of local men. The peculiar danger it is subject to is the tendency to the lowering of university standards, but this can be guarded against by constant watchfulness on the part of government and public opinion. However much the Indian university may be improved along its present lines, it possesses inherent defects. Libor is dissipated. A concentrated scholastic atmosphere is wanting. A widespread organisation worked from a single-centre makes for monotony. Where the university is not an organic whole, it licks the volume of thought and the resultant originality which strikes out new lines. It tends to become conventional and imitative And the same spirit is noticeable in its constituent colleges. The President of Magdalen has told us that a university does best work which 'finds itself,' which develops its own special advantages, which hears and follows its own inspiring call. Turthermore, the affiliated institutions necessarily vary conromously in efficiency and tone (as a consideration of the comparative cost of educating their students sufficiently shows), and their number and variety value in the sufficient of the weather members.

110 The same critical spirit which has recently urged an examination of Grouth of neu the London University, has applied itself to Indian universities, which were ideals tounded on its model. It has taken different forms. First, the Muham madans and the Hindus have collected funds for institutions of a denomi national type Second, there is a growing desire for federal or affiliating universities of smaller jurisdiction In Burma the movement for the creation of a local university has revived 'An important question at issue," says the director, ' has been the type of university which should be adopted draft scheme in which a modification of the prevailing Indian type of federal university was adumbrated met with considerable criticism in the press as well as at a general meeting of educationalists and others convened in I ebruary 1910 by the educational syndicate That meeting however having decided nem con in favour of a local university, the question of type was further examined by the educational syndicate through special sub-committees. A second draft was then elaborated in which a compromise between the Indian federate and the British unicollegiate types was recom mended The resultant institution was to be a genuine teaching university composed of at least two constituent colleges and with a system of inter collegiate lectures and provision for hostels, the government college however being treated par excellence as the central and chief institution of the university round which the future accretions would gather" The Lieutenant Governor considers that Burma should eventually have its own university but that there is no immediate urgency Meanwhile, a similar idea is being mooted at Patna Mr Wright reports that there is a general and strong feeling that the time has come when an independent university is required to satisfy the needs of the Central Provinces "Distance makes adequate representation impossible on the Allahabad Senate Nor are our needs similar to those of the predominant partner in that body. Above all the necessity imposed upon our colleges and high schools of conforming to the requirements of a foreign university takes out of the hands of the adminis tration the direction and regulation of secondary education" The resolution states that the Chief Commissioner has every sympathy with the demand for a Central Provinces university both from the practical as well as from the sentimental point of view. Thus the idea of establishing new universities of some sort has formulated itself in three of the provinces where at present there is no separate institution of this kind. In Assam and the North West Frontier Province the number of colleges or local conditions are not yet such as to demand a change Third, a clear pronouncement on the subject of an altogether novel type of institution was made by the Vicercy at Dacca early in 1912, when he declared the intention of founding there a local teaching and residential university—a scheme which has since been worked out by an influential committee The two impracticable alternatives alluded to above It is possible (and indeed necessary) to maintain the old affiliating universities while reducing their unwieldy jurisdiction by the establishment in different provinces of new universities of a kindred type, and at the same time to found here and there, in promising centres, universities of a kind more congruous with present day conditions

II -- Organisation

Chancellore 111 The Chuncellor of the Calcutta University is the Governor General and Lice At other universities this position is occupied by the head of the Chancellows provincial government within whose jurisdiction is situated the headquarters of the university The head of the government in Bengal is Rector of the Calcutta University—in arrangement whereby he enjoys a special rank in the university of his province and special opportunities of making known his

The Vice Chancellor is the executive officer He is nominated for two years by the Governor General in Council or the Governor in Council in the three older universities by the Chancellor in the two younger the time office for two year. At the end of the period the Vice Chancellors were at Calcutta Sir A Mukherji at Bombay Sir N Chandavarkar at Madris Sn J E P Wallis in the Punjab Dr J C R Ewing at Allahabad Sir H G Richards All these are High Court Judges save Dr Ewing who is head of a mission college

112 The governing body of the university is the senate. The senate is

The senates

composed of the Chancellor the Vice Chancellor the Rector (at Calcutta) and two classes of Tellows (a) Ex officio fellous - These number at Calcutta two classes of recows (a) Excopion fractions—these number at Calcutta ten at Bomby six at Madars six in the Punjab three (to whom may be added representatives of Chiefs) at Allahabad four They include the Chief Justice or Chief Judge of the High or Chief Court where the university is situated the Bishop of the diocese the civil ordinary members of the Couacil of the Governor General (at Calcutta) the ordinary members of the Council of the Governor (at Bombay and Mudras) and the local director of public instruction (at Calcutta the directors in Burma and Assam and at Allahaba ! the director in the Central Provinces are also added) This is the consti tution of the ex officio fellowships in the schedules to the Act The personnel can be changed by notification At Calcutta the director of Eastern Bengul and Assam took the place of the Assam director and the formation of the new department of education involved a slight change in the schedule Ordinary fellows - The number of these may not be less than fifty or more than one hundred in the three older universities in the two younger universities the minimum is forty and the maximum seventy five In the former ten are elected by registered graduates and ten by the faculties while eighty are nominated by the Chancellor In the universities of the Punjib and Allahabad as the Act originally stood ten are elected by the senate and managed is the recommendation of the recommendation of the registered graduates five are elected by the faculties and savty are nominated by the Chancellor. The senates contain a large professional nominated by the chancement are sentes contain a large protection element. Not less than two fifths of those elected by the faculties or nominated the containing the conta element Address used two inters of those elected by the Chancellor must be engaged in the profession of education. The number of Europeans and Indians generally about balances. During the quinquennium election by the senate in the Punjab was changed to election by the registered graduates and by an amendment to the Act (Act XI of 1911) it has been laid down that in the case of the Allahabad University reliows whether elected or nominated hold office for five years The senate deals with the more important business of the university and conounces on the principles which are to guide its policy The affiliation and disaffiration of colleges the regulations and their amendments and the conferment of degrees are considered at its meetings—subject in the first two

113 Each member of a senate is assigned to one or more faculties fundties have power of election to certain vacancies on the cenate and on the

I acu ties and loards of studies

syndicate they ordinarily appoint boards of studies and can in some cases add to their number specialists in the subject with which they deal who are not connected with the university There is a board of studies for each prin

cipal branch of knowledge These boards recommend courses of study and text books and nominate examiners for the consideration of the syndicates 114 Since the senates are large (though less so than before the legislation Tle synd cates of 1904) they cannot be utilised as executive bodies Hence in each university 1 in) matters are delegate l to the syndicate which forms the executive of the university and a very important factor in its constitution. The preparation

of subjects of discussion for submission to the senate the appointment of examines, the recognition of high schools and other questions of administration are transacted by the syndicate. But it actions are subject to discussion in the senate. The syndicate consists of not less than 9 and not more than 17 members and in the case of the Allahabd University not less than 10 and not more than 18 members. Of these the Vice Chancellor and the local director of public instruction (and at Allahabad the director in the Central Provinces) are at officione bers, the others are elected by the senate the faculties or both. Half of those elected must be heads or professors of colleges while at Allahabad these must be in an actual majority.

115 Such are the controlling bodies of the universities They are Functions of assisted in some cases by special committees framed for discharging certain the univer functions As an example may be mentioned the students residence com sities mittee at Calcutta Each university also has a registrar who with his office disposes of business and issues the orders of the senate or the syndicate Apart from minor domestic matters such as the appointment and control of their own staff the main duties of the university bodies thus constituted may be classed as three (1) They recognise schools and hold matriculation examinations for the pupils of those schools and for private candidates (ii) They affliate colleges inspect them and conduc the diploma and degree examinations for admission to which the students of those colleges and private students are eligible (111) They maintain in certain instances their own collegiate insti tutions and make provision for university teaching in post graduate and higher studies In the performance of all these functions they are guided by their own regulations. These regulations were originally framed by the universities who also make changes in them. The original regulations required and any modification also requires the approval of the government concerned Separate sections of this chapter will deal with courses examina tions and degrees and with university teaching. It remains to give here son e brief account of the relations of the universities with schools and the affilia tion and inspection of colleges

116 The universities are empowered under the Act to regulate the condi (a) Recog u tions to be complied with by schools desiring recognition for the purpose of tion of schools presenting candidates for matriculation. This power is not exercised at Madras where the recognising authorities are the director of public instruction and outside British territory) the durbars of feud-tory states. At the other minersities recognition is the act of the syndicates. The University of Allahabad occupies in this respect a kind of intermediate position since the application for recognition is made through the department of public instruction which also conducts the initial (but not necessarily subsequent) enquiries. In the other universities, the school management may make direct application and it rests with the syndicate to accept the report of the gotermment inspector or to make investigation through other competent persons. The arrangement at Madras is that recommended by the Indian Universities Commission of 1902 whose views on the subject however were not accepted by the framers of the Act

117 The universities conduct their own matriculation examinations (b) Matricula These will be described in chapter VII — It may here be stated that there is a ton now next on the part of the universities to be ognise as equivalent to the matriculation the various forms of school leaving tests which are springing up in India. School final or school leaving tests which are springing up in India. School final or school leaving test which are springing up in India. School final or school leaving tests which are springing as equivalent to their matriculation examination. The other examinations or recognised are the London matriculation examination by the Calculta University the Oxford senior local examination by the Universities of Bornbay and the Punjab and the diploma of Chiefs colleges within their jurisdiction by the universities of Allahabad and the Punjab.

118 Those who having matriculated desire to present themselves for (c) Aff aton eva mination by a university and thus obtain a diploma or a degree must have and disaffilia undergone a course of study at an affiliated institution. Exceptions we ton of colleges made on the recommendation of the syn licate by special or let of the senate in accordance with the regulations framed by each university. Affinition is no longer (as was the case before the Act of 1994) granted on bloc but by

faculties or subjects, and also up to different stages in each faculty or subject it is thus of two kinds-an institution hitherto unabhliated must seek athliation de novo in a certain number and grade of courses, an institution already amiliated, but desirous of adding other subjects to those which it now offers, or carrying the student in any course up to a higher stage than has hitherto been ner utted to it, must show its abinty to do so and thus obtain a further measure of additation. The procedure in both cases is the same and is laid down in the Act of 1904 The college must apply to the university and satisty the syndicate that it is under the management of a regularly constituted governing body, that its finances are sound, that its affiliation and its ice rules will not, by undue competition, injure neighbouring institutions to the detriment of education and discipline, that the buildings are suitable that there is a library, that reasonable provision is made for the residence on that the spot of the principal and some members of the staff, and that the science laboratories and the arrangements for the residence of students conform to the requirements of the regulations. The syndicate then depute an authority to make a local inquiry, after which they report to the senate who if neces sary after further moure, record their opinion. The whole of the procoedings are then submitted to the government who grant or refuse the affilia ceedings are then similated to the government who grant or refuse the allination sought in whole or in part. The procedure for disaffiliation is similar, save that the initiative is taken by a member of the syndicate. who must give notice of a proposal for withdrawal of privileges from the institution concerned and state his reasons for introducing it. These are and known to the college, with a view to affording it the opportunity of submitting a representation. The syndicate consider the proceedings and it necessary order a local inquiry They then report to the senate that body has recorded its opinion, the whole proceedings must be submitted to the government who may if they desire make further inquiry and then pas, such orders as they consider necessary

(d) Inspection of colle_ses

119 The law also lays down that the syndicate shall cause colleges to be inspected, but does not specify the intervals after which inspection is neces sary or the nature of the agency (save that it must consist of one or more competent persons' authorised by the syndicate) At Calcutta the regulations preserted in a team, at least once in three vears, at Madras from time to time in the Punjab once a year and at Allahabad at least once in five years It is obvious that this is a very import ant function of the universities, for, though returns, notifications of changes of the staff, etc. are forwarded to the syndicate, personal investigation alone can show whether the general standard of efficiency is maintained at the level required for affiliation For this and for the inquiries relative to affiliation and disaffiliation, there is need of an inspecting agency. After the framing of the new regulations consequent on the Act of 1904 special steps were taken The present arrangements for periodic inspection are as follows. The Calcutta University alone maintains a whole time paid inspector As he cannot he expected to have a special knowledge of the requirements of each subject taught and for other reasons, the syndicate usually associate with him one or to o local professors when he is visiting a college or a group of colleges Bombay a committee was nominated by the syndicate in 1909 Mr Prior reparks of its work, "Criticism and appreciation of the respective short comings and merits of the institutions visited were put forward and welcomed or resented according as they were felt to be deserved or undeserved, many of the defects alluded to have been since remedied. After detailing some of the opinions of the committee among which figures a serious complaint ande regarding a certain college of the amount of time consumed in the rains by cricket competitions he gives it as his view that this system of inspection is perhaps the best practicable "It is open however to the objection that the members of the committee without any conscious bias may take too harsh a view of the shortcomings of rival institutions but deal too tenderly with those of their own while constructive criticism might be taken to pledge the members of the committee to more than they could undertake themselves' At Madras a representative body was created after the Act of 1904 which by reason of its composition carried great weight In the Punjab the inspection of each affiliated college has been performed annually by small committees of from two to four members appointed by the syndicate The committees are

generally compo ed of members of the syndicate who are either engaged in ictual teaching work or are otherwise specially qualified to judge of the special activities of particular colleges A secretary to these committees also visits all colleges and is thus enabled to present a comparative report method of inspection says the university report is found to work admir ably in practice and as a direct result an all round improvement in every department of college life and activity is everywhere visible College authorities welcome the inspection committee as a body of experts able and willing to advi e on methods of instruction on matters of college discipline and on special problems and difficulties which particular institutions may encounter while the members of the committees themselves gun experience from the observation of college work in varying circumstances and At Allahabad a board of ten inspectors was constituted. It was felt that one man was not competent to deal satisfactorily with all the aspects of college work that the representations of a body would carry greater weight than those of an individual that there should be room for the participation of different colleges in a work in which all were interested and that a limited tenure of office would prevent the board from becoming the preserve of a clique There were some says Mr de la Fosse suspected evil in what they feared might become a system of meddling or espionage others disliked it as a new fangled measure calculated to lower the dignity of university education. All such misgivings have been falsified and no one now who has had experience of it doubts the value of the visits of the board * * * * All the colleges have been inspected at least once during the quinquennium and some two or three times. The work has been done with tact and thoroughness and above all with good will The colleges have felt that they have been helped as well as criticised and if the syndicate has had to apply both the curb and the spur it has resulted in no lasting The arrangements made in various universities differ con They are shaped largely in accordance with the number of insti tutions the supply of men available for inspection and the existing facilities for getting about the country The almost universal opinion is that inspec tion has been successful. It has led to improvements in the colleges and has tightened the bonds of unity between them

120 It may be added in this connection that the universities frame (e) Control of regulations touching the trunsfer conduct punishment and residence of students students in infiliated institutions. These regulations differ in respect of detail

121 It will have been gathered from the foregoing paragraphs that the Limitations of power of the universities is to some extent limited. First the Chancellor power has in the two younger universities the privilege of nominating the Vice Chincellor in all universities he nominates a considerable number of the

Chancellor in all universities he nominates a considerable number of the fellows approves the election of fellows can declare vacant the office of any ordinary fellow who does not attend a meeting other than convocation during a year and can (sometimes under restrictions) cancel a fellowship and as will presently be seen he confirms honorary degrees Other powers are exercised by the government 18 in the case of Calcutta by the Govern ment of India in the case of other universities by the Local Government within whose jurisdiction is situated the leadquarters of the university. In the three older universities the Governor General or the Governor in Council nominates the Vice Chancellor The list of offices carrying ex officio fellowships may be changed (provided the maxima allowed by law are not exceeded) by government notification. The bestowal and withdrawal of affiliation rest with them the university can record its opinion but the govern ment pronounces the verdict. The making or modification of regulations must receive the approval of government Finally at Calcutta the sanction of the Governor General in Council is required to the appointment of university professors readers and lecturers. The independence of the universities however is secured in various ways. The authority nominating to the senate is bound by the law to select not less than two-fifths of hi nominees from among persons following the profession of education-a rule which considerably narrows choice Nor has the government any power of nitiative in the matter of disaffiliation of colleges the alteration of regu

or its withdrawal This last point is peculiar since it gives the university a measure of control over high schools (a class of institutions intimately connected with the general school system) which in the case of colleges rests with the government Above all the powers of framing courses and conducting examinations are of the highest importance and affect large number, of institutions spread over wide areas. There are few, if any universities in the world which exercise so far flung an influence as does the Coloutta University with its 56 affiliated colleges and its jurisdiction o er an area of 491 000 square miles and a population of pearly 104 000 000 III -Courses examinations and degrees 199. The three older universities possess the faculties of arts law medicine and engineering Calcutta also separated the faculty of science from that of arts in its new regulations. The Puniab University has arts

lations once passed or the addition of new regulations And (save as srecified above) it has no power in the recognition of schools

The faculties

science law medicine and oriental studies at has combined engineering (in which only a licentrate is offered) with science. Allahabad has arts, science

law and medicine-the last recently added The courses 123 Under these faculties are combined various courses At Bombay and Madras the science courses (which at Madras have no separate nomen clature) are arranged under the faculty of arts. Every university save Bombay offers a course subsequent to graduation and leading up to a second degree or a licence for the preparation of teachers. The faculty of medicine now includes various courses such as public hygiene Bombay offers degrees in agriculture and commerce—the latter recently instituted Madras and the Punjab confer oriental titles The arrangements made for courses examina tions and degrees will be found in detail in the diagrams and appendices in volume II of this review The second of these appendices shows the subjects

taken in the arts and science graduate courses. It will suffice here to give a general outline The arts and science courses are open to candidates immediately after they have matriculated and lead after two years to an intermediate examina tion and after a further two years to a degree examination. Yet another one or two years lead to an examination for the degree of MA or MSc. After an interval the doctorate is obtained by presentation of a thesis to which is added in some cases the passing of an examination. The study of law commences after graduation in arts or science and continues two or three years before the bachelorship in law can be obtained. There are further degrees of master and doctor of law The medical courses begin generally after the intermediate stage-earlier at Calcutta and Bombay They lead first to the bachelors degree after which practice in the profession and examination earn the doctorate in medicine or some distinctive degree in surgery hygiene etc The course for the degree of buchelor of engineering commences generally (but not always) after the intermediate The Punjab University offers only a licentiate obtainable two years after matriculation The Punjah University has a complete course parallel with the arts course in oriental studies and maintains an Oriental College which endeavours to carry out the dissemination of western knowledge through the medium of the local vernaculars and the encouragement of the study of classical and vernacular To these ends" says the report of the university "the work of the college is planned on a double basis one leading to degrees in oriental learning and the other preparing for the various oriental titles examinations and emirating literary courses in Sanskrit Arabic and Persian and certain vernicular languages" The Madras University has also quite recently instituted title examinations in oriental classics. Bombay offers a degree in agriculture and has recently instituted one in commerce. These courses save under certain exceptional circumstances or in the higher degrees such as that of doctor must be studied in colleges affiliated in the subjects offered and to the decree sought

124 Honours are obtainable at the degree examinations save at Allah Hnous al ad Ordinarily the honours course includes the pass course and is taught along with it but involves more advanced study in one of the subjects chosen and success in additional question papers. At Madras however, the course is different and will be recent regulations be spread over three instead of two years displacing the examination for the MA degree which will then be conferred on payment of a further fee two years after graduation with honours

12) The ideal examination involves an oral or (in science) a practical Examinations test. This is facilitated by examination at a single centre. Such examina tion however is difficult to arrange in affiliating universities exercising a widespread jurisdiction. Hence we find that for the lower examinations different centres are permitted. Calcutta and Madris do not insist on a single centre for the ordinary degree examinations and have abandoned the or il while returning the practical test. Allahabad though imposing the oral test for the BA has conceded a centre for that examination at Nagpur Bombay and the Punjab return the headquarters of the university as the sole centre for degree examination though the former has no oral test

126 Fees are paid for examinations. The fee for the IA and I Sc Examination ranges from Rs 20 to Rs 25 for the B \ from Rs 20 to Rs 35 for the B Sc lees from Rs 20 to Rs 40 for the MA and MSc from Rs 20 to Rs 50 Tor examinations in law and medicine fees of Rs 15 to Rs 200 and of Rs 10 to Rs 100 respectively are charged The Madras University requires an additional fee of Rs 10 and Rs 50 for the preliminary and final honours

examination in English at the BA 127 Examiners are appointed by the syndicates on the advice of the Examiners

boards of studies and sometimes subject to the general control of the senates. Both setters and examiners of papers are paid. The problem of maintaining a uniform standard and tempering the mechanical system of marks (which still obtains in all univer ities) is one the difficulty of which increases with the number of candidates The regulations or rules of the Calcutta Punjab and Allahabad Universities deal with the subjects of moderators head examiners and re examination of papers. The Calcutta regulations are particularly explicit. There the members of faculties and the heads of colleges first suggest the names of examiners. The boards of studies con sider these suggestions and make nominations. The syndicate finally appoints and its appointments are not limited to the nominations syndicate also appoints boards of examiners for the setting of papers For the intermediate and degree examinations in arts and science these boards may include no one who is actually teaching for the examination. For the M.A. and M.Sc examinations the boards consist of the university lecturers in the subject concerned together with others (who are not engaged in prepar ing candidates) Each board meets in Calcutta to apportion the setting of papers There is also a meeting of the setters and the examiners of papers as soon as the examination is over to determine the standard and system of marking A third meeting is held when the results have been worked out and tabulated at this meeting a report is drawn up. The reports are received by five members of the syndicite who are appointed moderators and are submitted with further reports to the syndicate along with recommenda tions for grace Notwithstanding these precautions complaints as to variation of standard are not infrequent. The Bengal report treats of the astonishing variations which have taken place in standards during the quinquennium and urges the need of inquiry It appears that the percentige of passes in the first division at the matriculat on to the total number of passes has risen from 123 in 1906 07 to 509 in 1911 12 and that at the intermediate in arts from 87 to 245 The percentage of actual passes in those examinations however while it has shown a tendency to rise has remained fairly steady But the percentage of passes in the B \ examination has risen from 235 in 1901 02 to 377 in 1906 07 and to 609 in 1911 12

128 A tendency is observable towards examination by compartments Examination The BA and BSc examinations at Madras are held in two parts at intervals by compart of one year. The Puniab University has introduced re examination in a ments single subject for those who fail at the degree test. At Bombay a previous examination in the hiddle of the intermediate course (which disposes of Finglish in the case of science students) has long been a feature, this examina tion may now be replaced by a certificate from the head of the college. The

professional courses are characterised by annual examinations dealing with the subjects prescribed for each stage

Honorary le rees

199 Honorary degrees are conferred on eminent persons who are recommended by the Vice Chancellor and at least two thirds of the other members of the syndicate, the recommendation is made to the senate, and if two-thirds of those present are in favour of it it is referred for confirmation by the Chancellor

Modification of CO 4656 (a) In arts

130 Looking broadly at the changes effected during the quinquennium we see that the tendency is towards concentration of study and the crystallisa tion of alternatives into groups or schools of subjects which are more or less correlated with each other The course for the B \ now consists in all univer sitie of Fuglish plu either two subjects or one subject or one group of sib nects chosen from a list (in the case of Calcutta vernacular composition forms a second compulsory subject) Bombay has recently reduced its derice course from four to two subjects—a change regarding which the principal of the Liphinstone College remarks that the danger is that the B A degree will in future be gained much too cheapl and that the graduate will emerge to longer " ith a Leneral smatterin" of four subjects but with an equally surer ficial knowledge of two only Accertheless the change is suggestive of at least a notential improvement in attainment. Looked at from the point of view of combination the courses at Boy bay and Madras present a strict grouping at Calcutta and Alial abol a freer choice of combinations has been adopted (and at Allahabad the power of selection has recently been increased) Lat himited within general groups and in the latter case by a narroy field of alternatives the Punish offers unrestricted closes. From the point of view of specialisation in arts or science subjects. Allahal ad is the only university which excludes science wholly from its BA course Madras though the nomenclature of science courses has not been adopted in reality distinguisles rigidly between arts and science by correlation between the intermediate and degree courses and by pre-cribing for the B \ English with either an arts or a science group at Calcutta both of the elective subjects may and one must be an arts subject. Bombay and the Punjab permit the combination of English with wholly science subjects-an arrangement which however does not stul tify the distinction between arts and science courses for the reasons that at the former university English is not studied for the BSc at both the choice of science groups or subjects is more limited than in the BSc and in the Puniab it is restricted to three subjects one of which must be astronomy a branch of study which will disappear from the B Sc course in 1914 Symp tomatic of the same tendency are the complete removal of science subjects from the MA at Bomba, and the institution of a MSe derree and in the Puniab University the recognition of history and economics as two separate subjects the changes in the curricula to emphasise practical work in science the insistence on two laboratory subjects for the B Sc and the abolition of English poetry as a subject for the same examination

(b) In law

131 The most notable change in the law courses has been the prolong. tion of the course at Calcutta to (ordinarily) three years the general stiffening up of conditions and the concentration of law classes at large centres.

Another is the abolition in the Punjab of the lower grade examinations qualifying for a certificate and a licentiate in English or vernacular

132 There have been two great reforms in the faculty of medicine (c) In medi is the continued tendency to do away with the lower grade courses leading to cine the licentiate in medicine and surgery These are retained only at Bomlay and Madras and are now in process of abolition at Bombay The second is the specialisation which in reasingly marks the courses subsequent to gradur these now lead to different degrees such as the MD MS and (at Bombay) bachelor of hydrene-a degree which is now necessary before the candidate proceeds to the MD in similation (It is to be observed that before the commencement of the aunquennium Calcutta already presessed four degrees at this s age—the MD the MS the master of obstetrics and the diploma of public health)

133 Similar changes are taking place at Bombay in the engineering (d) In eng neer courses Those leading up to the licentiate are being abolished and replaced ing

by courses which qualify for bachelorships in three distinct departments civil, mechanical and electrical engineering. At Calcutta also the degree course has been split into three—for civil for mechanical and electrical and for mining engineering.

134 The brief description given will suffice to show that there is a steady Attainment of but cautious working towards specialisation and an arrangement of courses students calculated to make for higher efficiency The details of the courses are too long for insertion in this chapter and will be found in volume II But even the lengthier description there given treats only of the dry bones-of periods of study of subjects and of examinations It cannot reproduce the curricula contained in the university calendars Still less can it clearly indicate the which is the matter of greatest interest-the attainment of the students v ho have successfully passed the tests. That is a question in answering which the personal equation both of candidate and examiner is of prime importance The Indian BA or BSc has a good knowledge of some of Shakespeares pla s of Milton or certain prose v orks on literature and other subjects in addition to this he may have a very fair acquaintance with the Sanskrit or Arabic classics (though not so deep or so wide as that of Latin or trieek possessed by the English undergraduate who has just begun reading say for honour moderations) or he has read and remembered 'lill and various text books on ethics and psychology he has perha, s studied the differential and integral calculus dynamics and hydrostatics or he has completed a course in physics or chemistry similar to or slightly higher than that offered at a good Luglish's condary school-but generally under for better laboratory conditions and supervision If this amount of acquisition appears ritler disappointing it must be remembered that le takes his degree at an age when the I nglish boy is just entering his college career or has accomplished the first year of it and that a foreign language is the medium of instruction in the course and of expression in the test. It is still more difficult to appraise the power gamed of reasoning and of applica ion of the knowledge. A frequent complaint is that the college student generally corres ill equipped from as hool where method mental discipline and inspiration are lacking. The depressing effects of inferior school education form a prime factor in the college career The first two years are properly occupied in regaining deficiencies Given that such repair is carefully carried out the progress made b tween the inter-mediate and the BA degree stage is remarkable. The pity is that the period is too short Assiduity and a strong power of memory make rapid acquisition possible But haste is inevitable and does not make for assimilation and consolidation Continuation of study to the MA stage rectifies this short coming and produces many excellent scholars. And as regards the average graduate it is right to remember that the Unclishman who judges him is generally one who has taken honours and hence is apt to judge the pass man

IV -University teaching

135 The earlier Acts specified that the Indian universities were estab Operation of Inshed for the purpose of ascertaining by means of evamination the per onsite ted of who have acquired proficency in different branches of literature science and 1904 art and of revarding them by acidemical degrees as evidence of their respective attainments and marks of honour proportioned thereunto. The Act of 1904 included among their duties provision for the instruction of students the power of appointing university professors and lecturers the management of educational endowments the equipment and maintenance of university libraries laboratories and museums and other things besides. The teaching activities of universities have developed during the quinquennum. The progress has been mainly along three lines the mantenance of in titutions the provision of instruction for the master's degree and the appointment of professors with a view to encouraging higher study and re-circli.

136 At the beginning of the quinquennium there were two colleges (a) Linucristif minaged by a university—the Law College and the Oriental College at colleges. Lahore—There was also a university law school at Allahabid—To these have now been added a university law college at Calcutta which is a portion of the

UNIVERSITIES

has six endowed studentships, at Allahabad, the Empress Victoria readership (with an endowment of his 76,000) was founded in 1909 for research in science and the translation of a science work into the vernacular

Besides these, the government have placed at the disposal of the Indian universities in rotation two scholarships annually of £200 per annum ten able for three years. These are awarded by the universities concerned to selected Indian candidates with a view to the completion of their studies either at Oxford or at Cambridge the selected scholars also receive second class passage each way

V -Numerical progress, buildings, etc

139 The universities have jurisdiction over native states as well as over Numbers of British provinces. Hence the general tables do not give a full idea of their institutions activities. A set of special tables has been prepared from figures supplied and students by the universities, giving the full number of institutions and students.

These will be found in appendix VII They show 179° affiliated colleges, of 14,80° are in colleges and 14,80° are in colleges affiliated to Calcutta University, and 30,533 students, of whom 14,80° are in colleges affiliated to Calcutta It is noticeable that, while the Madras University is second, the number of its colleges is 49, and that of its students only 7,152° That is to say, while the average enrolment of a college affiliated to Calcutta is 264, that of a college affiliated to Madras is only 146° The schools recognised by universities number 1,385° and their pupils 407,402° The numbers of schools and pupils under the Calcutta University are 618 and 143,625°

In this connection mention may be made of a small point, namely, the connection of educational institutions in Ceylon with those of India In the last review Mr Orange stated that under the Act of 1904 Cevlon had been transferred to the sphere of influence of the Madras University, but its nine colleges had not yet been affiliated This condition of things still exists The colleges of Ceylon have never been affiliated to the Madras University, but as a temporary measure students who had attended colleges affiliated to the University of Calcutta were allowed to appear for the examinations in Madras under the old bye laws These examinations have now been supersed ed by those prescribed under the new regulations Two colleges in Ceylon applied for affiliation to the new examinations, but after a local inquiry the applications were withdrawn Six high schools (four of which are termed colleges) in Ceylon are, however, recognised by the Madras University for purposes of matriculation examination. But it is understood that the large majority of schools and colleges in that island now prepare their students mainly for the Oxford and Cambridge locals and the London University Those who wish to study for the Madras examinations must after matriculation attend some affiliated college in Southern India

140 As regards examinations, the numbers of those who, in 1911, Number of appeared and prased at different stages were, at the doctorate stage 5 and 3, examinees at the masters stage 687 and 488, at the backelor's stage 7,559 and 4093, and at the intermediate stage 13 609 and 7,094 The totals of those who appeared and passed in university examinations were thus 21,906; and 11,650; Of the examinees about 10,065 were non Brahman Hindus, about 8 374§ were

Brahmans 1,746 were Muhammadans 750 were Indian Christians 693 were Parsis, 171 were Europeans or Anglo-Indians, 92 were Buddhists and the remainder belonged to other races or religious In the arts courses the number of Brahmans is almost equal to that of non-Ifrahman Hindas

^{*}It may seem strange that while affiliated colleges throughout all India number 172 colleges in Birtish India slone appear from general table III to be still more numerous—187. The reason is that general table III contains many colleges (cortain and professional) which are not affiliated to any numerous to all hence do not figure in the numera is tables. The number of students shown by the universatise is livinger owing to the comparatively large saws of arts college.

The number of high choice here shows exceed that shown in general table III by 31. But the pupils fall about of those in the general table for 30. The general table contains a certain number or contained accordance to the contained accordance to the contained table that affiliated abbods in nature states.

Including 146 and dates and 115 passes in Princering which the Punjab Curreruty has not table to the contained target of the state of the contained target and the same of the contained target of the con

shown in d tail but has included in the column for "total".

The figures for Brahmans and non Brahmans have been calculated partly on a proportion since the University of Rombis has not distinguished between them in its returns

university exchequers It was also deemed desirable to pay the travelling expenses of fellows and syndicate members (who had previously defrayed the Still more important was it to enable colleges (particularly cost themselves) aided colleges) to meet the new requirements which the Act and the resultant regulations threw upon them Accordingly in 1905, the Government of India announced a recurring grant of five lakhs of rupees to be continued for five years Of the total of 25 lakhs 111 lakhs were allotted to universities for administration, inspection trivelling charges the purchase of luid and the erection of buildings, 13½ lakhs were given to Local Governments for the improvement of colleges. These grants have enabled universities to pay their way and (a desirable result) to accumulate balances for capital expendi ture The grants to Madras and the United Provinces were made perma nent before the expiry of the five years They were renewed to other pro vinces for a further year then (with a slight modification) for three years and finally made permanent with effect from 1911 12 Furthermore in 1912 grants of 16 lakhs non recurring and 255 lakhs recurring were made to universities The total of the recurring grants to each province and university is shown in tabular form

	Grants or re:	as made posewed in 1	ormanent VII 1º	rmanent Grants of 1912 to Universities		Total recurr ng grants		
Privince and Un versity	for Coll gas	for Univer 8 ties	Total	Non recurring	Becorning	to Prov nose	to Univer- sities.	Total
	Ra	Re	Ea	Re	Es	Ra	Re-	Es
Madras and Madras University	80 000	2,000	165000	4 00 000	63 969	80 000	90 600	1 70 00
Bombay and University of Bombay	45000	18 000	15 006	3,00 000	45 000	45 000	\$5 000	1 00 00
Bengul and Calcutta Univer-	1 10 000	50 600	1 60 000	4 00 600	65 000	1 10 000	I 15 000	°.23 000
Justed Provinces and Univer	40 000	40 000	60 600	3,00 600	4> 000	40 000	85 000	1 95 000
Panjah and Panjah University	20 000	10 000	30 000	200000	25,010	20 00.0	45 000	65 000
Eastere Bengal and Assam	60,900		60 000			60 000	- 1	60 000
Control Provinces and Berar	18 000		10 000			10 000	- 1	10 000
Total	3 65 600	1 35 000	5 00,000	16 (0 000	2 55 000	2 65 900	8,90 000	7,55 000

Thus the grants made to universities (exclusive of those made for the benefit of their constituent colleges) have amounted since 1905 to Rs 16 00 000 non recurring and from Rs 1,35,000 to Rs 3,90,000 recurring In addition Rs 45,000 recurring was given in 1912 13 towards the proposed university at Dacci. No grant was given in 1905 to Burna, college education in that province being on a small scale. But since the close of the quinquennium grants have been made for a university at Rangoon, as well as at Patna, and further provision has been made for Dacca while new capital grants have also been given to other existing universities

143 The subject of the utilisation of these grants will be a matter for the Utilisation of next quinquennial review All that is here necessary is briefly to indicate grants the part which they will play in developing the schemes to which allusion has already been made At Calcutta the capital grant is to be utilised for examination halls, a law hostel and books and furniture for the university library, the recurring grant for the foundation of two university chairs termed the 'George the Fifth Professorship of Mental and Moral Science and the 'Hardinge Professorship of Higher Mathematics' for an additional allotment to the university law college and (as an experimental measure) for the appointment of university lecturers A portion will also be used for the maintenance of a laboratory in connection with Sir T Palit's gift of fourteen lakhs for science teaching Furthermore the university out of their own funds are founding a professorship of Indian history and antiquities The Bombay University have proposed improvement of the library and buildings for post graduate students, the engagement of eminent professors from abroad to lecture during the cold weather and the institution of inter collegiate M A.

courses The most striking proposal from this university however is the temporary appointment of an expert educationalist of wide experience from England for a fixed time to visit the affiliated colleges and advise on higher courses and the selection of professors and lecturers. No decision has yet been arrived at on the utilisation of the grants to Madras. The most important proposals of the Punjab University are the erection of a suitable building for the Oriental College and of hostels for the students of the Oriental and Law Colleges the establishment of two lecturerships to be held by specialists of Europe or of India during the cold weather and the improvement of the striff of the Oriental College. The grants for Allahabad will be used for the establishment of a library and conomics. The proposals had at the time of writing been sanctioned for all the universities—save those from Madras which have not yet been received.

Publications

144 The Calcutta Madras and Punjab Universities issue publications intended to be studied as a part of the prescribed course. At Calcutta these comprise English Sanskrit Arabic and Persian selections Sanskrit and Arabic grammars (these are selections and grammars for the matriculation intermediate and B.A examinations) and a number of selections of leading law cases. In 1910 11, the university appears to have made a substantial profit from the publication of these works. The Madras University has published selections in English, Sanskrit and vernaculars for the matriculation. The Punjab University publishes Arabic and Persian selections for the intermediate and B.A. Lectures these etc. are also frequently published and sold.

its position. Calcutta has long had its impressive Senate House in College Square During the period under review it has added the Maharaja of Darbhanga building which accommodates the library the law college offices etc., as well as examination rooms to seat about a thousand candidates. The building cost nearly six and a half lakbs to which the Maharaja Bahadur contributed two and a half lakbs government about two lakbs and the university the remainder. An adjoining plot of land has been purchased at

Improvement in buildings

a cost of a lakh and a half and a building has been erected for a law hostel and examination halls. The cost will be four lakhs to which the Government of India has contributed three lakhs. Sir T Palits recent gift of property worth fourteen lakhs will permit of the erection of university laboratories for practical examinations and research work.

At Bombay the convocation and the meetings of the senate are held in the Sir Cowasi j Jehangir Hall which was made over to the university in 1875 the library and the Rajabui Tower date from 1864 and were the gift of Vir Prenchand Rovchand Madras has a fine Senate House the library is located in a portion of the Connemara Public Library. At Lahore the only university building was the Convocation Hall till in the last year of the quinquennum a convenient library was built with a reading room above Allahabad had no buildings of its own, and utilised those of the Muri Cen

The principal capital requirements of the universities are buildings for the colleges under their management hostels for the residence of the students especially those of the law colleges and library halls. At the end of the quinquennium the Government of Ludia distributed a grant of sixteen likhs of rupees which will assist in removing some of these wants.

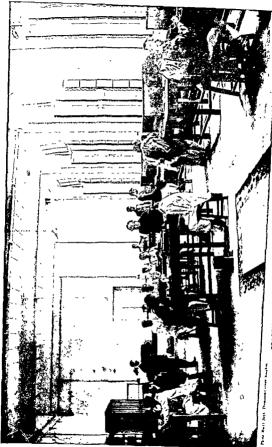
tral College but a fine Senate Hall (costing nearly six lakhs of rupees) has now been erected and was opened just after the close of the period

Libranes

146 Another need is that of collections of books. Here also the grants recently made will be of help. The Calcutta University therary has recently been placed in the Darbhanga building and improved by the expenditure of Rs 70 000 for books. A further sum of a lakh of rupees is now to be expended from the imperial grant. Bombay has a library of about eight thousand volumes which is not very largely used. Madras commenced as the property of the

fair sum in hand. The books are at present in the Connemara library. It is proposed to erect a separate building. The Punjab University his not only housed its library, but with the help of the earlier imperial grant, has doubled the number of volumes, while 7 500 volumes (including the Percival collection—the gift of Mr. H. M. Percival lately a professor in the Presidency College) have been presented. The University of Alinhabad possisses no library worthy of the name but is about to spend a considerable sum out of the imperial grant on this object.

NEW LABORATORIES PRESIDENCY COLLEGE CALCUTTA



PRACTICAL WORK IN ELECTRICITY, PRESIDENCY COLLEGE, CALCUTTA

QUEENS COLLEGE BENARES

MUIR CENTRAL COLLEGE, ALLAHABAD

Pit ta.-Mee De Th muses Do ee Roories.

DACCA COLLEGE.

BISHOPS COLLEGE CALCUTTA

COTTON COLLEGE SCIENCE DEPARTMENT ASSAM

OHAPILR VI ARIS COLLEGES

I -Progress in the quinquennium

147 The bulk of the instruction leading up to the university examina Aumber of itoms is conducted in affiliated colleges. A list of the colleges affiliated to the colleges universities is given in supplemental table no 37. The distribution by universities is as follows—

in orstes		\umler of at		
		19.7	1910	Chapge
Calcutta		55	51(a)	1 -و
Bombay		15	15 ′	٠.
Madras		53	49	-4
Punjab		21	20 (/)	-1
Allahal ad		32	31(c)	+2
				
	TOTAL	176	172	-4

The diminution is due mainly to a number of nominal collegate classes for Europeans and a few others being depraced of affiliation or amalgamated against these there are some new affiliations. The details are given in supplemental table 37

148 The figures shown in the preceding paragraph are compiled from the inversity calendars and differ from these given in promotic freprets and reproduced in general table HI (column 11). This is due to two causes livet the university figures show 26 colleges in native States and one in \(\text{imen}\) the decrease show 26 colleges in native States and one in \(\text{imen}\) the decrease show 26 colleges in native States and one in \(\text{imen}\) the decrease show 26 colleges in native States and one in \(\text{imen}\) the decrease show 26 colleges in the protest from British proximes. Second there are certain institutions such as the Thomson Civil Engineering College Rochec the Agricultural Colleges, at a Campore and Lyallpur, the Veterinary College Labore and a number of oriental colleges which are not affiliated to any university and do not present candidates at aniversity examinations. I veluding the former and including the latter we find the total in British provinces is 186 colleges with 30 284 students. There are some other colleges \(\text{e}\) g the Agricultural College, at Pais the Veteriary College and Belgischia. Calcutta and the Medical College. Malaris for which no strustic have been furm hed in the provinces of the 186 colleges of 6 are professional—for the study of law medicine engineering it ching etc. These will be death with elsewhere. Of the remaining 140 eventican an oriental arts colleges the terrational of which belongs to the chapter on oriental studies. There remain 123 English or ordnary arts colleges. It is with the ethal the present chapter is concerned. The figures regarding than in found in supplemental tables 18 and onwards. And a map is given in volume II showing their distribution.

140 While the number of coll ges has fallen from 127 to 123 that of Nuntral students has grown to 25 190. This incrars is quite unparallelt. I Twents students students ago there were 8 060 students in colleges. Between 1902 and 1907, the necesses was less than 1 1002. In the present quanquennum the increase has less than 1 1001. In the present quanquennum the increase has been particularly large in Bangal and Fastern Bengal and Assum and bough the actual figures are much smaller in Burma and the Central Provinces. In all these provinces save Bengal the numbers have considerable more than doubled. Of the total increase of 10 105 students no less than

⁽a) Excludes two law cases

⁽⁴⁾ Fac odes two schools of engineers.
() Includes King Ceorge's Medical College but ex lodes four law classes.

6 318 are accounted for in Bengal and Eastern Bengal and Assam. This is the more remarkable since in the previous quinquennium the number of students in Bengal had decreased. Mr Orange attributed this to oscillations in the matriculation results. The figures regarding the passes under the Calcutta University which have already been mentioned in paragraph 127 may have considerable bearing on this point though undoubtedly another factor The sudden expansion has put has been the rush into secondary education a considerable strain upon institutions In Eastern Bengal and Assam addi tional professors had to be appointed and temporary hostels opened In the Presidency College Calcutta certain principles had to be laid down for regu lating admissions The first of these was preference for pupils who had passed the matriculation in the first division but it was of little use owing to the unprecedented number fulfilling this condition Mr Prothero gives some remarkable figures as to the number of applicants for a limited number of vacancies in the classes but adds. It must be remembered however when endeavouring to draw conclusions from these figures that a very large number of students put their names down for the Presidency College without the slightest intention of actually taking admission—many of them in the vague hope of obtaining free studentships

Management of colleges

150 Twenty three of these colleges are maintained by government five (in Madras and Bengrl) by minicipalities.* three by nitive States in Bombay the remaining ninely two are privately managed and sixty two of the e are in receipt of aid. Of the colleges under private management 40 are connected with missions the rest are maintained by societies committees or private individuals. A college maintained by an individual must however be administered by a governing body—the existence of which is now a condition of affiliation under the Act. The number of students in colleges under public management is 7 290 that in privately managed colleges is 20 906.

Classification of students 151 Of the students 279 are ladies—the largest numbers being 81 in Bengal and 76 in Bombay As regards communities the percentage of the members of each to the total is as follows—

Europeans	7
Indian Christians	31
Hindus Brahmans	35 8
Mon Brahmans	46 7
Muhammadans	98
Buddhasts	8
Parsis	18
Others (unclassified)	13

These figures represent the proportions of actual numbers of students in colleges. The numbers of those who passed the university examinations in 1911-12 are shown below.—

_	Juropeans	In Lan Ct of ans	He stands II	No Brainans	Muhammada .	Bud!	Para s	Othera	Total
MA. HS BA- HS- LA 18:	2 %) 58 5	119 4 135 1	111 1,300 107 1,477 191	139 23 745 137 1,239 4*3	20 2 2°0 7 337 23	13 51 2	6 45 6 53 8	13 4 6	28 4 47 2,477 63 4 100 653

The remarkable feature in these tables is the preponderance of Brahman students and successful candidates as compared with their proportion (4 per cent) to tle whole population

^{*}These are the cologes of Salem Palghat and Tell cherry n Madras M daspur and Moughty in B-egs! The last named a managed by a point board of the municipality and the d strict board

152 Expenditure on arts colleges has risen from Rs 30 12 000 to Expenditure Rs 47 26 000 The sources from which income is drawn are provinced flunds whose contributes Rs 18 43 000 (an increase of eight lakhs) and other heads which contribute Rs 18 43 000 (an increase of three likhs) The average cost of munitarizing a college is Rs 38 423 that of educating a student is Rs 175 a vear. The cost per student varies for provinces mainly with the number of students. Where students are comparatively few the cost is high—Rs 394 in Burma and Rs 387 in the North West Frontier Province where students are numerous it sinks—to Rs 141 in Eastern Bengal and Assam and Rs 135 in Bengal. Notwithstanding the growth in expenditure so large has been the concomitant increase of students that the cost per head has risen by only one rupee in the quinquenium. The average fee paid annually by each student has increased by nearly eight rupees and now stands at Rs 68 4 9 (about £41). The viriations are remarkable they are shown below—

Prov ace	Average sname) feep	ad by s≉udent : colege
	1907	191*
Madras	ს5 9	85.3
Bombay	68.8	~2.5
Bengul	543	64.7
United Provinces	66 0	71 0
Punjab	5a 5	61.9
Burma	8 2	82.8
Eastern Bengal and Assam	47 6	502
Central Prov nces and Berar	468 🧲	49 6
North West Frontier Province	59 9	498
Averag	e 60 ~	683

The low rate in the last two provinces is natural by reason of their back wardness, but it is remarkable in Eastern Bengal and Assam

153 There is a striking contrast between publicly and privately managed colleges If fees be excluded the income in the former is just below 13 lakhs that in the latter is 143 lakhs Yet colleges of the latter type are nearly three times as numerous as publicly managed colleges and educate nearly three times the number of students It follows that privately managed colleges subsist largely on fees (a source of income which totals Rs 12 41 482 in their case and Rs 5 51 724 in that of government colleges) endowments and other revenues (the income from which is Rs 9 78 000 while in government colleges it is almost absent). It seems therefore that privately managed colleges largely depend on the number of fee paying students they are able to attract And as a potent method of attraction is a low fee rate we find that the rate in these institutions is Rs 62 2 year against Rs 83 in government colleges with the further result that expenses must be carefully kept down in colleges of the former type The expenditure per student in a privately managed college is Rs 138 a year in a government it is Rs 290 a year Hence (with the exception of certain mission colleges where numbers are kept purposely low for purposes of tutton and supervision) colleges full into two clearly marked classes according to their expenditure and these classes correspond with A government college offers for an annual fee of Rs 88 an managen ent education costing Rs 200 a year a privately managed college offers for an unnual fee of Rs 62 an education costing Rs 138 a year The contrast is perhaps most strikingly brought out by a comparison of colleges situated not far from one another in Calcutta Three important typical colleges may be taken The Presidency College is a government college costing over 2? lakks a year and containing 973 students each of whom is educated at an annual cost of Rs 304 The Scottish Churches College is a mission college mided by government and costing rather less than 13 lakes a year which sum however does not represent the full pay of a staff largely composed of missionaries it educates 1 116 students at an annual cost of Rs 182. The Metropolitan Institution managed by a committee composed mainly of the professors is also at led by government at costs Rs 60 000 a year and educates 1 023 stu dents each of whom costs annually just less than Rs 59 the whole of the cost

is met by fees (Rs 52 000) and government grant, only Rs 195 a year comes from other sources

Scholarships

154 Expenditure on college scholarships has risen from Rs 279 300 to Rs 343 200 Junior scholarships are those which are awarded on the result of the matriculation and are held for two years up to the intermediate Senior scholarships awarded on the intermediate, are tenable up to the degree Bengal offers 109 junior scholarships varying from Rs 10 to Rs 20 and 7 senior scholarships of Rs 20 and Rs 25 Eastern Bengal and Assam has 81 junior and 33 senior scholarships of the same value as those in Bengal. And both these provinces have special scholarships for Muhammadans aboriginals and those in strutened circumstances and likewise post graduate scholar ships. A transpersants in other provinces are similar.

Grants for collegiate education 155 Mention has already been made in the preceding chapter of the imperial grant intended to enable universities and privatels immaged colleges to conform with the regulations framed under the Act of 1004. The an ount which in 1912 had been added to provincial settlements for the improvement of colleges was Rs 2.45 lakbs. The amount annually contributed from public funds to inded colleges is now nearly five lakbs. The number of aided institutions has risen from 54 to 62. In Madrias only has the amount of annual subsidy declined—from Rs 1.09.000 to Rs 64.000, in Bengal the United Provinces and the Central Provinces it has doubled, in Burna it has trebled (but still remains small since there is only one ided college—the Baptist Miss on College in Rangoon) in Eastern Bengal and Assam it his increased from nit (no college being on the aided lists in 1907) to Rs 43.000

Buildings

156 The amount expended on college buildings cannot be separated from that on buildings for other kinds of institutions But the improvement during the quinquennium has been most marked As the account of this involves allusion to individual institutions it has been included in appendix VIII Special mention however, must be made of the extensive building operations in some of the mission colleges in Madras the erection of well equipped laboratories and hostels in many institutions under the Calcutta University especially the laboratories of the Presidence College of which that for physics is described by the principal as deserving recognition among the best in the world, the provision of complete new buildings for St. Columbus College (Hazaribugh Bengal) and the Meetal Canning and Christian Colleges in the United Provinces considerable extensions to the large denominational colleges of the Punjab, completion of the fine buildings and hostels of the Dacca College the almost complete reconstruction of the Chittagong College and the erection (with the help of a grant of Rs 1 85 000) of new buildings for three of the privately managed colleges of Fastern Bengal and Assam, the housing of the Morris College at Nagpur in the old residency and the commencement of the Islamia College Peshawar Fourpment and libraries are mentioned in the appendix and the latter in chapter XXII Great strides have been made in college recommodation and this is by no means confined to government institutions. In laboratories particularly many of the colleges now leave little to be desired

Summary of progress

157 Such has been the maternal progress of the period—both pupils and expenditure have increased by over 56 per cent and an altogether higher ideal has prevailed in the planning and erection of buildings. In other direction, too there has been advance. The continuance of inspection by the universities has tended to maintain a proper level of staling and instruction. The study of science has received increased attention in several provinces. Residential variangements have been improved, and partly as the result of this improvement more of a corporate spirit is beginning to evince itself in individual institutions. The weak point in the system remains the striking inequality in the efficiency of different colleges—not so much in examination results but in the conditions of study residence and recreation and all those things that go to make up truly collegate life.

Characteristics of different provinces

, 103 The progress effected in each province is briefly described in appendix VIII Local conditions have fostered varieties. Briefly Madris and Pengal are distinguished by the large number of their colleges (each has 32). In Madris missions are responsible for the management in nearly half the

cases No less than 22 of these institutions are of the second grade, the num ber of students per college is small, and the total numbers show little tendency Bengal, with an equal number of colleges, has nearly double the number of students, the increase has been enormous, missions play a much smaller (though still considerable) part, and a number of comparatively cheaply run colleges (some originally proprietary, but all now placed under committees) are situated in Calcutta-the Metropolitan Institution, the City, Ripon Central and Bangabasi Colleges The United Provinces comes next in the number of the colleges, two of which the Muir Central at Allahabad and Queen's at Benares, are government institutions, the remainder managed partly by missions (conspicuous among these being St John's College Agra, and the Isabella Ihoburn College for women at Lucknow) more often by committees, such as the well known college at Aligarh supported by the Muhammadan community and Canning College, Lucknow, supported by the talukdurs of Oudh College education in Bombay is concentrated Though the number of students exceeds that in the United Provinces, there are only aleven colleges The two government colleges—the Elphinstone at Bombay and the Deccan at Poona—are kept comparatively small. The largest college is the Tergusson College at Poona, managed by the Deccan Education Society The two mission colleges-the Wilson and St Naviers-are also largely attended The committee managed colleges at Ahmedabad and Karachi have not proved altogether satisfactory One has been transformed into a govern ment institution, the other is being considerably overhanded. The Punjab has ten colleges of which only one is managed by government The charac teristics are, first the concentration of institutions at Lahore, where five ordinary arts colleges, one oriental and four professional colleges are all situated in close proximity to one another, second, the maintenance of large colleges by denominational bodies-the Sikhs the Muhammadans and the Arja Samaj In Eastern Bengal and Assam, too there are ten colleges With the exception of two of the government colleges their condition was deplorable The Dacca College is now one of the best found institutions in India, the Chittagong and Cotton (Assam) Colleges have been raised in standard and greatly improved, and all the private colleges save one have been brought on to the aided list. This is the only province in which not a single college is managed by a mission body. In the remaining provinces, the number of colleges and students is small

II —College life

159 A college is either of the first or second grade. A second grade First and college is a filliated to the intermediate, admits students of the age of 15 or 15 second grade years and keeps them for two years or until they can pass their examination co leges. Such institutions accordingly resemble schools rather than colleges. They are most nume ous in Madras, where, says Sir A Bourne the college departments are little riore than two classes attached to the school which in that presidency almost invariably crusts alongside the college. Mr Orange has recorded the condemnation passed on second grade colleges by the two inspection committees appointed by the Calcutta Univesty In 1907 there were 73 such institutions. Now there are 57. The retention of large schools as an integril part of colleges is also a questionable arrangement—sometimes in the case of the weaker privately managed colleges dictated by financial considerations. In some provinces it has been discouraged and the schools have been removed to a distance. The first grade college continues its teaching to the degree—a course of four years from matriculation and sometimes on to the MA.

160 The staffing of a college is a matter of vital importance—not merely Staff beta discipline and formation of character. The total number of teachers in colleges is 1519 A government college ordinarily contains a few English professors in the Indian educational service. There are in all 122 principals and professors of this service. The Indian professors are graded in the provincial services and the issistant professors are usually M.A.'s of Indian university.

sities but not a few have taken degrees at English or other European univer sities Occasionally a large government college is found staffed entirely with Indians such is the Rajshahi College in Eastern Bengal As an example of stalling the Presidency College Calcutta may be taken It contains 25 pro fe-sors of whom nine belong to the Indian educational service and 32 assistant professors demonstrators etc. In smaller colleges the English professors number only one or two and the total number of teachers is much less s on colleges contain on their staffs well qualified European or American teachers generally members of the mission but not invariably so (St. Stephen's College at Delhi may be instanced as a strongly staffed mission institution with a certain number of lay English teachers) Indian professors are al o freely employed. Other privately managed colleges not infrequently main tain an English principal and perhaps a few I nglish professors such is the case in most of the nided colleges of the United Provinces notably the Muham madan Anglo-Oriental College at Aligarh and in some of those of the Punjab Often however (and perhaps invariably in the Bengals) they utilise Indians Here as in the case of government colleges the Indian professors are MA s for the most part of Indian universities though there have been a few notable instances of Indians who have taken distinguished degrees in England entering service in these institutions. Often the pay is not sufficient to attract as does government service M A's of the first class or to retain the services of men who seek more lucrative employment at the bar or in other walks of Want of permanency in the staff is a defect in some of the privately managed colleges. Mr de la Fosse has some interesting remarks about teach er in the United Provinces though the difficulties there encountered are not so fully shared in all provinces much of the passage is of general application

The finding of the right men in sufficient numbers is a die sult problem ever, where but it is beset with special discoluties in the case of Indian colleges and it is doubtful whether the colleges have always succeeded in oldsining a supply of teachers commensurate in quality and quantity with their ert increasing requirements. The flowing tide of students the higher conceptions of efficiency the growing complexity of college life the development of higher studies—all these have contributed to intensify the demand. But endowments for professorial chairs have not much appealed to wealthy Indian philanthrop sts as a way in which to benefit the country. The resources of the affiliated colleges have been sorder taxed to meet it exist of addit ons to their stiff and ther have sometimes fixed the salarse perinouly low. There can be no doubt that there have sometimes fixed the salarse perinouly low. There can be no doubt that efficiency is impaired when in order to make provision for the teaching of extra subjects exceed the salarse perinous for the teaching of extra subjects could to see the down on the college and contented staff are preferable to several laught to a capable and contented staff are preferable to accept laught sufficiently.

Instruction

161 Each college is affiliated according to the merits of its staff in certain subjects and up to certain standards in each subject With the quickly rising numbers of students the different subjects and combinations of subjects effered by various colleges and the particularity shown by many matriculates in their choice the commencement of the academical year is generally a busy period. Some students flock to the government colleges because they are better staffed. Not all can obtain admission, and these have to go on to privately managed colleges Others prefer the private institution—often because its fees are lower But, having taken admission a student may find something amiss-perhaps he cannot get the precise combination of subjects that he wants in this case he changes and seeks admission elsewhere The classes having at length been formed the work of instruction commences Each professor lectures perhaps for three hours a day Each student attends some four lectures a day Calcutta University requires in each college a minimum of 140 lectures (spread over two years) on each subject offered for the intermediate (save vernacular composition) 160 for the degree and 180 for the M.A or M Sc And each student must attend at least 75 per cent of these The defects of the lecture system, which generally results in the student transcribing and conning in his leisure time the notes he has made in class have been described in Vir Orange's review Other kinds of tuition are laboratory and tutorial work. In the better colleges the former is probably as well done as in most countries The latter is almost impostible in

enormous classes The Calcutta University permits 150 in a class or a section of a class. It has, as a special measure, permitted some of the privately managed colleges to maintim classes each of 200 students. Mr Orange noticed that in Bengal and at Dacca a beginning had been made with tutorial work in government colleges and trusted that future reports would give details. The increase of staff has permitted of improvement but not of perfection. The principal of the Presidency College, Calcutta remarks that there is still too much lecturing work and too little work of other kinds but that the latter is growing and consists of tutorial work, class exercises and seminars. Mr Prothere continues.—

In 1906 the principal al olished the system of tutorral work which then existed by which large classes were broken up into sections for tutorral purposes. He must stituted nearly individual tuition in the case of the intermediate classes. The studints were tiken in couples, for half an hour at nime once a fortinght. A system it class exercises was introduced in 1910 11 for all sits subjects in all undergraduate classes. A form of mark sheet view devised, and on this mit sheet lecturis and tutors made the complete record of the work done. These mirk sleets provide an approximately complete record of the work of every student. Different members of the staff are assigned as tutors to classes at each of the three stiges—intermediate, B.A., and M.A. the intermediate stage composition and precis writing are practised. At the B.A stages most of the classes are too lives for tutorral assistance to be given with the present available staff. At the UA stage, there is eassy writing and seminary work.

Seminar work is carried on in philosophy, history and economics. The idea of the seminars is to encourage independent work by students under the guidance of the professor and thus to lead up to original research. Each seminar has a small specialized labrary of its own. In philosophy tutori il assistance is very effectually given in connection with the seminar has permanent of the university inspector recemmnads the cristion of a class of private tutors like the 'Private Docents' of German universities, who should be remunerated by the special fees which the lackward students would be required to py

The report from Eastern Bengal and Assam says nothing of the experiments which have been made in the Dacca College, and one could wish for fuller information on the subject in reports generally Mr Godley says of the Punjab —

"In means for mainting assignment and right nock in the colleges there last been inducable advance during the past fav voirs. In most fit is celling is the practice of with colleges have legun to state definitely in their projects the conditions under which promotion will be given. Individual colleges are more and more adopting matched of their own for keeping the students to a high deed of work. As a result principals and professors testifs that there is a very marked impresent among the first and that I very men. The group or tutional system has been adopted in eight cut of the eleven colleges under review. Four seem enthusiastic about its actual working but there seems to be some harmens as to me. Fack colleges is nevertheless, radually adopting the assistm to its own six and needs. end in 1911, government proposed that the messes should become self supporting But a grant of Rs 9000 and other charges in excess appear to be still met from provincial revenues A similar scheme has been set on foot for Dacca though on account of the large hostels attached to the Dacca College and other institutions and the Oxford Mission hostel the state of things in that city is more satisfactory Committees have been formed a proctor appointed and a grant of over Rs 7000 a year given for the hiring of better houses

The Government of India have given grants in 1911–1912 and 1913 amounting to about Rs 584 lakhs for hostel construction in Bengal—mainly in the cities of Calcutta and Dacca. The money can be used for high school as well as college hostels and some portion may be applied to the Pacca University. How pressing is the need for these grants and for increased vigilance is shown by the following passage taken from the Calcutta University report.

"The Calcutta colleges in suite of their best endeavours have hitherto fuiled to provide suitable residence for a large majority of their students and the task ha naturally devolved on the university. The provincial governments have also been lending volubile help to the university in carrying out the provisions regarding the residence of students but although the results have been on the whole beneficial it would be silled to deny that considerable work yet remains to be accomplished. The residences now provided are in many instances so unsatisfactory the arrangements for supervisions to inadequate and the lack of infinited resiscention between teachers and students so generally the rule that a continuance of the present system cannot reasonably be expected to foster the conception of true scadenic life among students. What is imperatively needed is the development of a comprel ensire scheme whereby all the resources will be in a position to undertake such a covid scheme variable by generated has altracted the attention of His Excellency the Chancellor and that at his instance a contribution of Rs 60000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already of the sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A further sum of Rs 300000 has already been made from the imperial revenue to some of the deserving colleges for hostel purposes. A fur

164 But the mere provision of hostel buildings is totally insufficient Residence of Supervision is a matter of vital importance In 1906 the Government of professors India decided that when a substantial proportion of the students of a govern

ment college were resident in hostels adjoining or near to the college building the principal and a professor might ordinarily be provided with free quarters on the condition that definite duties were assigned to such officers in connec tion with the supervision and physical welfare of the students Provision of quarters for additional officers or the grant of allowance were also made permissible with special sanction. An enquiry was made in 1911 into the effect of these orders and it was found that arrangements had been made on these lines in 29 government colleges (including professional colleges) Some of the privately managed colleges in the United Provinces such as the Chris tian Canuing and St John's Colleges have also made accommodation on the premises for European and Indian members of the staff Members of Mission Societies live in their hostels-which are ordinarily for the accommodation of students of the several colleges of a town Residential quarters near the government college and also privately managed colleges have been provided in the Punith In Bengal and in Eastern Bengal and Assam free quarters and allowances are given to superintendents free medical attendance is generally afforded to the boarders and at Dacca the college has its own dispensity with an assistant surgeon whose sole duty is attendance on the hostels of the city. In this connection it may be mentioned that systematic physical examination of students has been commenced at the Forman College Labore and its introduction is favoured at other Punjab colleges

165 In order to realise the ideal of a college some community of life is Community essential between the terchers and the taught. The residential arrange of life ments just described are a step in this direction. Here as also in the

efficiency of work and play everything depends on the personality of the Mr Covernton says of the Rangoon College

'In spite of defective commodation the time of the Government College has been very good and the relations between the st. f. and the pupils are of the best. This result has been achieved to a certain extent by the personality of the principals but more generally by the large infus on on the staff of Furbish professors in the Indian educa tional service. Apart from the principal in April 199 there were but one permanent and one temporary professor in the Indian educational service now there are the Indian educational service professors in addition to the principal. The supply of temporary professors from Encland in it is room of professors abbent on leave has proved a very professors from Energian in the room of processors and on care as proven a very quennum under which persons often incompetent of taining in the previous quin quennum under which persons often incompetent or undesirable (or both) were recruited as the result of advertisement in In la It is [leavage however to be able to add that of late vers it has been possible to increase materially the Burman element on the staff and that a Burman M A Las just succeeded to the profes-orship of Pali Another promising indication noted by the principal in his report is that "students are now realising the futility of learning everything off by heart." The absence of English books in matriculat on and closer acquaintance with the more recent arrivals on the staff max incline them the principal loops to rely in re on lectures and other modes of study and less on memoraing. In athletics, especially in football and hocker the college has attained a high standard thanks to the En-shish taff. Cricket and tenniare becoming increasingly repular. games since he finds that through them 'sickness and clackness' are both averted'

Debating and literary societies and playing fields form a favourable ground for intercourse Another activity is the production of college magazines—and a large college generally has its magazine. Again there are societies like the Calcutta University Institute which is patronised by government the Moslem Institute both in Calcutta and the Bihar Young Men's Institute at Bankipore In athletics an enormous advance has been Mr de la Fosse says that the de-criptions of the Indian under graduate which used to pass current of they were ever true are certainly so no longer Games are played with keepines and not vicariously by picked The principal of St. John's College Agra sav "A most teams only encouraging feature of the year's games has been the amount of play outside the charmed circle of the first eleven We have always felt in this college that the mere production of a good first team by no means exhausts the objects of athletics There is real keenness among the beginners." In the Punjab a university sports committee has done much by arranging inter collegiate matches. Mr Wright says of the Central Provinces college the futility of turning out scholars as opposed to men is recognised and the staffs are doing their best to produce the latter. Even in the two years that I have served in the provinces I note distinct advance in this It is for instance a healthy sign that in place of college students dawdling aimlessly along in the evening hand in hand or combining a constitutional with the contents of a text book, one sees a tired but vigorous horkey team returning from play or has to make way for a stream of cross country runners training for an inter-collegiate event." The report from Eastern Beneal and As-am says that lath; and sword play have now dis appeared and the superfluous energies of the students instead of running into forbidden channels, now find scope in European games

166 Of the wave of agitation which swept over parts of India during the previous quinquennum and the earlier years of that under review for Discipline tunately less is heard in the present reports. The report from the Calcutta

University contains the following passage ---In the course of the survey of the condition of the schools and colleges the ques

t n of discipline among students engaged the errnest attention of the students. Indian tudents are rirely guilty of disorder, but the unfortunate political agitation which was so widely prevalent in these parts of the country a few years go and with which our students were bermiled to associate themselves by des oning men succeeded in swerring a core detable portion of them from their habitual path of order and discipline

growth of a tendency to comm t I reaches of d scipline and to indulge in di respect and defiree of authority was prinfully manifest among college and school students and the situation seemed to be fraught with extreme danger to the cause of education and studies seemed to be irrugal with the common during the interfere and to affirm despine. The university felt it to be its paramount dury to interfere and to afford adequate protection to the innocent and oruleless and to save them if necessary even a the verge of run. It was thought that a systematic extens on of the residential system would arrest the evil and would eventually succeed in erid cating it. But the

question of funds was a serious of strele in the may. The syndicate were consumed to that without a bil art ig grant in and from the state continued for many years and supplemented by private effort on in equally extensive scale at was impossible to a vide colleges and set Is with adequate and well immaged places of residence for students. The other remedy that suggested itself to the synlicities was to seet the help and cooperation of the school and college authorities in checking the growth of this spirit of Ivalesmess and want of dissiphine among students. Circulars were accordingly assued to the leads of all infiliated colleges and recognised high scools within the jurisdiction of the university inviting their prompt and special attention to the necessity of the many the fullest use of all legitimate means within their power to prevent students under their charge from juriscipatings in or being present at any dem astronous time of the product of the main of the state of the

The trouble is not altogether at an end. The Bengal report speaks of bad examples set by teachers and the dismissal of a professor of the Hooghly College for seditious teaching. We hear of disagreeable incidents which have recently occurred at the Rajshahi College and so late as 1912 it was found necessary to place a government office in control of the Ananda Mohan College. Mymensingh in order to restore discipline which had been seriously impaired both by overt criminal acts on the part of the students and by other serious indications of a disorderly spirit.

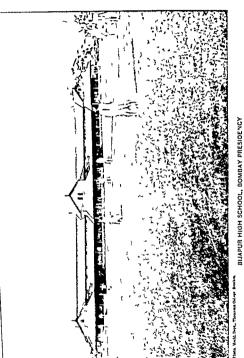
167 It is not however so much indiscipline which is to be apprehended a rick of discipline. The Bengal report says. Besides political unrest there is unother agency at work which is supping the foundation of discipline, this is the gradual reconstruction of Indian society on the basis of individualism as opposed to the joint family system. The Indian student at present appeals to the old relation between guru and pupil when he wants a favour from his teicher but is not much inclined to fulfil the reciprocal obligations building do no hundre of the pupil

The same report quotes an opinion about the Presidency College Cal Students are not disobedient nor exactly disrespectful but they are certainly not respectful and there is no ready conformity with rules The prevailing belief appears to be that rule, are made for the sake of admitting exceptions to them and every individual student regards his over resease exceptional. Laws have no efficiency in a college without a sense for the spirit of law and this is at present lacking. These are matters of character training which lie at the very root of college life and compared with which the supply of laboratories or improved examination results sink into insumificance. In the better institutions (and they are many) well managed hostels the influence of professors in the playing field or the club and the growth of a collegiate spirit have wrought much advan tage during the period. But when we read opinions of this nature one of which has reference to a particularly well found college we perceive the amount of lee way that has to be made up in a system where wrong ideals have survived too long we realise the responsibility that lies upon the professor of students whose moral and religious opinions are often in a state of disinterration and we wonder what is the case with those who frequent colleges where hostels and supervision are non existent where the pupil attends merely for the sake of fulfilling his attendances and the teacher having delivered his lecture too often betakes himself to other pursuits till the next morning s class hour

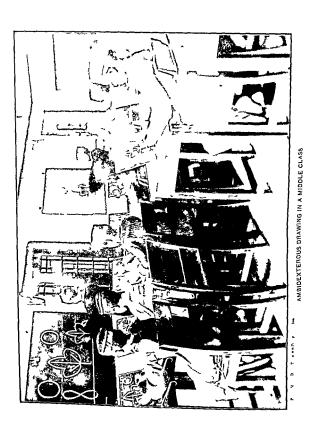
168. No treatment of collegate education would be complete without an Si idens' allision to the presence of from 1500 to 2000 Indians in England. These aductors come studying in institutions of various kinds—ranink universities. Some mittee for those an the cons of will to do prients. Some have received the scholarships given it if any in by government for technical or oriental subjects or delegated to universities. England

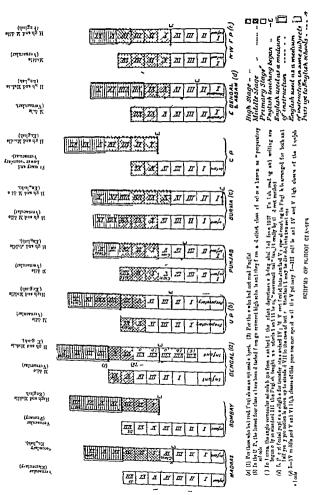
or disbur ed by private persons of so lettle. Some desire to carry their studies higher. Some seek a road into the Civil Service of to the Bar. The difficulties encountered by many of these on their arrival can easily be imagined, as also the influences to which those are exposed who have none to befriend them In 1909 the Secretary of State after consultation with the Government of India established a bureau of information and a committee in London to provide information and assistance to supply lists of suitable lodging houses and private families and to help students socially The committee presided over by Lord Ampthill contained the Right Honble Sayid Ameer Ali the late Sir Curzon Willie Sir M M Bhow naggree and three other Indians resident in Lngland Local committees were likewise established in India to furnish information and advice to Indians proceeding to England and to communicate on behalf of them with the Central Bureau in London both before their departure and in case of any difficulties arising. The secretaries of these committees are generally I majority of the students take advantage of the bureau and a considerable number of parents place their sons under the quardianship of the educational adviser in London. The headquarters of the bureau are at 21 Cromwell Road where the Northbrook Society and the National Indian Association are also located Here lodgings are provided for those who have just landed. The extension of the scope of operations has necessitated the enlargement of the staff. An Indian assistant has been appointed to the adviser and local advisers at the university centres. For Burmese students there is a separate organisation called the Burma Society. In view of the large number of Indians who now complete their education at home often in a depressing environment the scheme is one of extreme importance

Indian diplomas at Oxford and Cambridge 169 English universities recognise Indian universities in various ways. The rule at Oxford has recently been changed and it is now necessary for a member of an Indian University to have passed the BA or BSC examination before he can be admitted to the strium and privileges of an Indian jumor student. At Cambridge a student of an Indian university who has studied for at least two years at a first grade college or colleges and has passed the intermediate an the first distinon or the BA in the first or second division (in the case of the Punjab university a pass in the BA in any division as well as in the intermediate is obligatory) and in one or other of these examinations has passed in Fiench I atim Sanskrit Arabic or Persian is admitted to the privileges of infliation.



Pade, No Life 4, Then are Whys Boston,





CHAPILR VII SECONDARY DUCATION

I -General

- 170 This chapter contains eight sections and may be divided into two Treatment of The first part contains a description of the organisation of secondary the subject schools a rapid sketch of the progress made in the past five years and a brief account of a hool life the second consists of five special topics each of which, by reason of its importance at the present juncture and at the risk of some repetition, appears to deserve separate treatment
- 171 Secondary education is that which follows the primary course. It Definition to either I nglish (more properly angle vernicular) or vernacular. The num bers of middle vernacular schools and their pupils are included in the figures given in the chapter on primary education. Their description is also reserved for that chapter, for, though I nglish is sometimes taught in them, in their proper character of vernicular institutions they belong to the pri mary system and carry the pupil to the highest stage ordinarily attainable (save in Burma) by those who do not study Linglish. Anglo vernacular schools are divided into high schools, which prepare the pupil for the matri culation or some form of school leaving examination or certificate, and middle Inglish schools, which are merely incomplete secondary schools lacking the top classes. I'wo peculiar forms of school remain to be mentioned. Burma has a few vernacular high schools. Bombay has English teaching schools designed for members of the community who (not being Luropeans) use Inglish is their mother tongue Both are included in the figures of this chapter. The present chapter deals only with boys' schools. Save where otherwise specified, the figures refer to schools for Luropeans as well as for Indians
- 172 A high English school then, aims at giving a complete preparation Organisation for employment or the university or entry upon technical studies, a middle I nglish school carries the pupil to a stage two, three or four standards below the examination or certificate which denotes that the pupil has completed that preparation, and, if he desires to finish his secondary course he must proceed to a high school. The organisation of a school however, differs from province to province. The man points of contrast concern (a) the differentiation of the curriculum from that prescribed in a vernicular school, (b) the means of transfer from the one to the other (c) the inclusion of ele mentary classes in the secondary institution (d) the stage at which the study of linglish is commenced. As the airangement of standards touches both angle vernacular and vernacular schools the organisation of both is shown
- In Madras a clear distinction has now been drawn in nomenclature and curriculum before the clementary and the secon live, should be proposed to the sum in a monetal-ture and currentum before the clementary should be secon live, should be proposed to the sum in the sum of the su mustain all the three high est standrids have been either reduced to elementary schools or designated incomplete secondary, see looks and groupd of nound central institutions—a scheme which has fallen short of expectations. The secondary school is supposed to be complete from the infant class to the sixth form. I splits is commenced in the fourth standrid of the 1 minary stage. But a pupil after completing the fourth primary student of the secondary school in the time the total bottom of the fourth primary student of the secondary school that we long only see year. Short the secondary school the secondary school the secondary school that the secondary school the secondary school that see the secondary school the secondary school that see the secondary school that seems of the secondary school that seems are secondary s not contain all the highest ti ree forms) has I cen reduced to 186 and over two thirds of the boys in secondary schools are studying in high schools second though the secondary

in the accompanying diagram

school papil is expected to procedute his studies from start to finish in a secondary school where the instruction is superior, this has not proved popular, and, by reason of the lowness of fees in elementary school, the parent generally prefers to let his child study in a school offering a distinct curriculum and then take transfer, losing a year, to a secondary institution Bombay differs from other provinces (save the Central Provinces and to some extent Burma) in that the secondary school contains no primary classes Children are educated from the infant class to the fourth primary standard in verns cular primary schools, which are organised in the same manner and teach the same curriculum whether their pupils will proceed to an anglo-vernacular second ary school or will discontinue their studies or will finish the three remaining standards of the vernacular course Transfer takes place direct from the top of the fourth vernacular standard to the bottom of the muddle English stage, at which point the study of English commences Another peculiarity of this presidency (already mentioned) is the existence of a class of school called English teaching schools (already mentioned) is the existence of a class of theory are intended for Gousses. East Indians, etc., and are inspected by the inspector of European schools. But there figures are not included in the tables for European education. The two Bengals, at the commencement of the period, resembled Bombay in baving a curriculum almost the same for the child under primary and middle instruction whether his education was to te of a purely vernacular type, or whether he would proceed to English classes they differed from Bombay and resembled Madras in including (or professing to include) primary classes in their secondary schools (Assam had its own curriculum and organ isation, which were afterward; assimilated with those of Eastern Bengal) The only difference was that, in the auglo-vernacular secondary school, English was commenced as a second language after the child had gone through the infant classes and the first three standards of the primary stage. This arrangement, emanating from the verna-cular or Froebelian scheme of 1901, did not commend itself to the Bengali parent in whom the idea is strong that the child must definitely prepare for the matriculation from whom the idea is strong that the callo must demittely prepare for the matriculation and this earliest days. The new scheme was accordingly ignored in all save government schools and those dependent on grants. Elsewhere English was trught from the influst classes, upwards. The consequence was that the lower classes of government schools were depleted or ceased to exist, the children frequenting either inferior secondary schools where the vernacular scheme was not in force, or, if their parents decided to put up with the vernacular scheme, vernacular schools where the unwelcome instruction could be had more cheaply This state of things was hardly desirable, and both provinces have to some extent differentiated the lower stages during the quinquennium. The details of the changes will be shown in the paragraphs which deal with courses Meantime, it is to be observed that English has been made an optional subject in the middle vernacular course (and the report tells us, at the primary examination) in Bengal, and that a boy who has studied it there and desires transfer to a high school has the advantage of entering at the bottom of the high stage, that is, in standard IV, while his less fortunate fellow pupil, who has concentrated on the vernacular, has to enter four standards lower In Castern Bengal and Assam, a more pronounced differentiation of curricula was introduced, so that the middle English now differs radically from the middle vernacular school, and those in the latter who learn English have declined from 4 104 to 749 A boy who has completed the lower primary standard can come across to 4 104 to 139. A boy who has completed the lower primary standard can come across to class 1 vi of an English school, thus loang only one year, and receives spervil cirching. If he can pass an un attu test at the end of class VII of a vernacular school, he has to inter class V of the English school. But the does not thereby necessarily lose two vers, for half yearly promotion is permitted, special attention being given to his instruction in English. The existence of the two lowest primary standards is discorting to the standard of the production of the existence of the two lowest primary standards is discorting aged. The organisation in the United Provinces is practically identical with that which was adopted during the quinquentiam in Eastern Benggl and Assem. In both production of the standards to the latter kind of school and the standards to the latter kind of school and the control of the second middle and two lates, the standard of the second middle and two lates, the standard of the second middle and two lates, the standard of the second control of the sec middle and two high, the study of Euglish commences after the conclusion of the second primary standard, and transfer from the vernacular middle school is allowed on similarly alrontigeous terms, i.e., a boy may be admitted into the next highest class on the I nglish side, and special classes may be opened in English for those who have prissel the vernacular final examination. There are two differences. The vernacular middle The vernacular middle school in the United Provinces contains six standards, that in Eastern Bengal and Assum seven And, while the infants and two lowest standards in an anglo-vernacular school are merely discouraged in the latter province, they are relegated in the former section are missing and separate management, since it was deemed that their presence would disturb the high classes and take up the headmaster's time, while continuous would disturb the high classes and take up the meanmarer's time, while continuous responsibility was not necessary till the study of English had been commenced. The Pouplo differs from the United Provinces in having a shorter course, for, though the number of standards appears to be the same it includes the infant class. The currents in the order of the property of the provinces in the contract of the standard appears are the contract of the standard. There are special classes for those who Figure commence and the second of the who has completed the primary school have structed in vernacular schools. A hor who has completed the primary school course can enter the lewest middle class after a year's special study. Burma is distingaished by having a distinct vernacular school from the lowest to the highest classthe vernacular high set ol—and by permitting the commencement of English in the angle retractal school at the lowest class—though in stundard I and II only conversational English is permitted. Fujis who have passed stundard I'V or any higher standard of it vernacular school are duntited to stundard I'V or any higher school (e—they look of the standard I'V or any higher cultum is substantially the same in both kinds of schools though it is simplified for rural size it is supplied to the same in both kinds of schools though it is simplified for rural size it is a high r a middle English school does not contain primary classes ordinarily these are led in branch schools.

173 It has been the declared policy of government to utilise private Management effort to the full in the extension of secondary education. Here and there government schools are maintained or founded. But the policy has been consistently carried out Government schools number only 271* and their pupils 74 689 In the preceding quinquennium the number of government high schools remained stationary For while 27 municipal schools in the Punjab were transferred to departmental management the government schools of the United Provinces were handed over to district boards the period under review the number of government high schools has increased from 131 to 195 * This is mainly due to the retransfer of 46 board high s hools in the United Provinces to government control Burma and the Cen tral Provinces (backward areas in the matter of secondary education) show respectively five and six new government schools. Eastern Bengal and Assum has an increase of five due to the elevation of the practising school at the Training College to the high status and the temporary establishment or provincialisation of four institutions in places where the privately managed schools had either suffered withdrawal of recognition at the hands of the university or otherwise failed. The other two new schools are in Bengal and the Punjab The change in the Punjab and the United Provinces deserves more than passing mention. Though as Mr. Orange observed the Educa-tion Commission of 1882 abstained from recommending the transfer of schools from the departments to municipalities the Government of the Punjab had conceived that such a transfer would be in accordance with the spirit of their report. Similarly by an Act of 1906 district boards in the United Provinces were made responsible for English as well as for vernacular edu In both cases the change proved unsatisfactory Complaints were made that the Punjab municipalities took scanty interest in their new posses sion nor had they sufficient funds for their proper maintenance The Naim Tal conference of 1907 found that the change in the United Provinces was working havor in the schools and recommended their provincialisation it was also found that the nided schools which looked no longer to government but to the boards for assistance were declining in efficiency and thoroughly dissatisfied In 1910 the board schools were retransferred to government and government again assumed responsibility for financing the aided schools It is recorded that the province is only now beginning to recover from the set back caused by the action of 1906 The number of high schools now main trined by local bodies throughout India is only 55 these are situated mainly in Madras and the Punjab The native States included in this report manage 37 high schools. The remaining 877 high schools are privately managed they contain nearly three fourths of the pupils. In the matter of middle English schools government takes a still smaller part. It man ages only 76 schools against 303 managed by local bodies 124 ty native States and 1 893 by private agencies The pre ent position is as follows

 Mranged by government
 2 1
 74 689

 Mranged by local badies
 358
 65 062

 Mranged by native Stries
 161
 1 54

 Mranged by pravide agreeues
 2 0
 469 306

Since 1907 the percentage of publicly managed schools to the total has declined from 23 1 to 22 2p per cent. Though in that ver the Government of India declared the policy of establishing a government high school in each district, this has not been accomplished. There are 190 government high schools and 249 districts. A thoroughly good unded school may serve at district head quarters. And the requirements of a locality viewed in the light of conditions and economy are now taken as the factors determining the necessity of government effort.

^{*} Excluding European schools but including vernacular high schools in Borma

174 In connection vith the retransfer of high schools from local bodies to government it is apposite to quote the opinion of the Royal Commission on Decentralisation of 1998 09 A number of witnesses held that the boards should be concerned with primary schools only the responsibility for schools of a higher character resting with the local Government We are of opinion that mual boards might have charge of middle vernicular as well as of pri mar, education provided that their dutie in respect of the latter are fully discharged We consider, however, that high schools, and all institutions in which teaching is given in Linglish should in all cases be a direct govern And again as repards municipalities We consider that the e ent charge oblinatory functions of municipalities should as suggested by several wit nesse be confined to primary instruction. Secondary education should be in the hands of government but if a municipality is after the due discharge of its normal duties able and willing to devote money to middle vernacular schools it might be reimitted to do so

Control

170 Far the major part of secondary education is thus in the hands of private agencies ic mission bodies committees and individuals. So import ant are this subject and the kindred subject of grants in aid that they de serve to be treated together as a special topic. For the present it will suffice to consider the means of control over these privately managed institutions which so largely monopolise a very vital part of the instructional system The, are controlled partly by the departments of public instruction partly by the universities. The departments may aid schools and by this means impose their regulations upon them. They also ordinarily permit the pupils of the e schools to compete for government scholarships and to admit govern Two thirds of the privately managed schools are aided. It may be presumed that the great majority po sess scholarship rights the with drawal of which is resorted to only in cases of gross mismanagement. The universities have two great means of control. Lirst, they recognise schools for the purposes of presenting candidates at matriculation. Second they conduct the matriculation examinations. An exception is Madras Madr is University has not taken the powers of recognition permitted under the Act of 1904 and the success of the school leaving certificate scheme has transferred the control of the courses and the award of diplomas almost wholly to the department or at least to tile committee of officials and non-officials with whom the working of the seleme rests A school wishing for recognition by the Allahabad University must apply through the inspector who sends his recommendations through the director The syndicate may accept the report or institute enquiry. In Bom my the university may accept the departmental list of recognised school of a school not recognised by the depart ment upplies to the university tat body may refer to the department and either accept its recommendation or make further enquiry. The Punjab University utilises the government list or may after enquiry recognise other A school desiring recognition by the Calcutta University applies due t to the syndicate who make their enquiries either through the govern ment inspector or through some other qualified person. The syndicate in all cases is the recommunity body in the university the government inspector is ordinarily utilised as the inspecting agency. While the power of recognition thus in practice shared by or largely laft to the department the control of the matriculation rests wholly in most provinces with the university. Hence there is a certain duality of control. The Local Governments and and inspect The universities ultimately recognise and examine (save in Madras) It is to be remembered that in some provinc a the schools are recognised and examined by a university situated outside the borders of the province. The report from the Central Provinces says. The high chool course which for every reason educational political and commercial is the most important is not controlled by the administration but is dependent on the matriculation examination as carried out by the University of Allahabad Even the recog nition and registration of schools is exercised by a university that knows nothing of them save from the unsufficient data supplied on paper. This is the weak point of our secondary educational system and until there is a separate university in these provinces or the University of Allahal ad accepts the schools recognised by the administration and a school final or leaving certificate as equivalent to matriculation the remedy is not obvious

II Progress in the quinquennium

176 The chief feature of the quinquennium has been the extruordinary Schools and increase in the number of pupils (see supplemental table no 60 and follow pupils ing). The numbers of high set ools and their pupils have increased from 1156 to 1210 and from 285 020 to 389 482. The answering increases in middle schools are from 2129 schools with 188 110 pupils in 1007 to 2464 schools with 277 556 pupils in 1912. The total increase has been from 3258 schools and 473 130 pupils to 3674 schools and 667 068 pupils. These figures exclude vernacular secondary schools. The increase in schools has been equivalent to 118 per cent. that of pupils to 410 per cent. The pupils in secondary English schools now form 12 7 per cent. of the male school population. The provinces of Bengul and Erstern Bengal and Assam continuin no less than

177 But secondary schools ordinarily contain primary classes save in Pupils by Bombry and the Central Provinces. The numbers in different stages of stages Inglish schools the percentages to the total and the percentages of increase are as follows.—

	1907	1913	Percentage to total in seco dary E g sh sel o is 191°	Percentage of increase
Pupils in high stage	107 607	139 315	20.8	29 5
Pul ils in middle stige	156 120	213 861	32 1	37 0
Pup is in primary stage	209 403	313 892	4~ 1	49 9
TOTAL	473 130	667 068	100 0	410
				_

1 537 of the middle English schools and many middle vernacular schools in

those provinces offer English as a subject

Since 1907, the percentages in the high and middle stages have decreased by 2 and 1 per cent respectively the percentage in the primary stage has increased by 3 per cent. The disproportionate increase in the lowest standards is slightly disquesting, but it is partly accounted for by the phenomenal rush into secondary eluction which in province where conders cloceration all the classes, is bound to show largely in the primary grades

178 The management of secondary Inglish schools has already received Schools by mention It is conveniently shown as follows — management management

	fot	Boar 1	State	All	L n Red 1	Гата
Se ntay t glah s li la	71	3 9	161	1 2 2	9 3	31 4
Part to a second large I all head to be	- 120	0 10	17.54	43 391	185 B to C	6 00

The part talen by government is very small and 784 per cent of the schools and 763 per cent of the pupils are under private management

179 The distribution by provinces is as follows -

Distribution by proxinces

lra n.e	Number of secondary Engl st a hools	of	I reentage of incress n pup is lurning quin quenn un	square to les served by a second arv fing 1 sh school
Madras	375	102 856		380 0
Boml av	450	67 574	29 2	393 1
Bengal	1 191	172 57~	370	1013
United Provinces	189	419~3		567.5
Punj l	194	~0 951	538	501 1
Burma	113	22 320		0428
Fastern Bengal and Assam	9Go	163 012	819	115 7
Central Provinces and Berar	116	15 835	219	80~8
Coore	2	305	176	791 0
North West Frontier Province	16	G 58>	49 1	824 6
Total	3 674	667 068	41 0	300 0
			-	

The enormous increase in pupils in Eastern Bengal and Assam and the accessibility (as compared with other areas) of secondary schools in that province and Bengal are marked features.

Proportion of secondary education

180 It is also interesting to observe the proportion of pupils in the secondary stage to the male school population and to the total male popular tion of a school going age

lm in r		For restage of boys in the seconds y stare of an F glob scient to make a b of population	I water of tops of a school going are of when con is in the percentage stare of an inglish when it
VI Ima		5.6	62
Buln		80	71
Hengal		าว	43
United Previnces		44	1.27
1 սոյ մի		8.5	5.1
Buttin		23	112
East in Biglan! Assiri		70	41
Central Pravitees at I Br r		5 f	74
Carg		7 11	41
I the West Ir after Pr vince		€ 5	8.3
	TOTAL	0.0	<u>t6</u>
	TOTAL	(0	ero.

A high figure in the first column does not unless accompanied by a low figure in the second column indicate advancement in secon lary education. It would rather indicate lackwardness in primars education. In this cen nection the following remarks from the Punjab report are of interest Reckoning them (i.e. verneular middle schools in that they teach classical languages) as secondary and excluding all primary classes there are 32 976 boys at the secondary stage mostly aged from 12 to 20 or 3 per thousand of the male population. In a review of the progress of second ary education in England published in the report of the Board of Education for 1908 90 it was estimated that 4 per thousand of the population were receiving education in 3 aided secondar schools and about 6 per thousand in secondary schools generally so that numeri cally spealing the Punjab is not so far behind the west in this respect as might be imagined especially in view of the fact that elementary education in England is universal and compulsory, although such a comparison would be misleading if it implied that the scope of secondary education in the two countries is identical Of the 33 000 pupils in secondary classes 7 205 mostly aged lifteen and unwards are in the two high classes so that it may be roughly calculated that ten per cent of the total number in the five secondary classes finish the school course annually are about half of those who enter on it Only a fraction of the vernacular middle school pupils continue their studies in the high classes of anglo vernicular schools which partly accounts for the

Pupils by

decrease at the top

181 The extent to which members of different communities participate creed and caste in secondary English education may be shown as follows The first column of figures gives the totals at school the second the number of boxs of school going ane among whom ten are at school the third the percentage of increase in the last five years. The figures are given for schools not stages since it may be assumed that a boy reading in the primary classes of a secondary school will proceed to the higher stages

	Fugl sh schools,	boys of boys of school going are of whom 10 are in a secondary a hool	Percenta of Incre- in the last fit years
Puropeans and lomiciled community	12 ~10	20	197
Inde a Ciristings	22 844	60	10.1
Brd mans	100 901	53	26 3
Non Bral man Hinlus	310 402	392	35.9
Mul mm-dans	133 0%	340	88.9
Bulllists	15 180	[91	23 0
Parais	5 414	13	5.7
Others	11 522	611	471 j

The most striking fact in this table is the relative preponderance of Bruhmuns over all other non European communities save Parsis significant change is the enormous increase among Muhammadan pupils. The increase among others (including animists) is indicative of an awakening among the lower ranks of secrety. Though proportionately very large this movement is still numerically small.

182 Direct expenditure on secondary English schools has risen from 117 Expenditure likhs to 160₄ likhs - The actual increase his been by 49₁ likhs equivalent to 49 per cent on the expenditure of 1907 which in turn showed an increase of only 19 per cent over that of 1902 The amounts derived from different sources are follows:

are as follows	Amount ec	entr buted n	Tercentag expend	ture n
	1907 Rs	191° Es.	1907	1919
Public funds Fees Other private funds	34 52 935 62 17 121 20 35 665	45 97 848 93 22 588 27 11 100	29 5 53 1 17 4	27 G 56 1 16 3
TOTAL	1,17 00 721	1 66 31 536	_	_

In addition it may be mentioned that public funds contribute over four lakhs innually on scholarships in secondary schools. This is not shown in the direct expenditure. Mr. Oringes warning must be repeated that the returns of receipts from public funds are probably accurate the may be approximately correct while the figures of receipts from private sources must be received with a great deal of reserve. The increases under each head are shared by every province save Coorg. In Madras only, 12.8 per cent of the cost of secondary education is met from public funds in Bengal and in Fastern Bengal and Assam 17.5 per cent. In the Central Provinces the proportions so met is no less than 58.7 per cent. To the whole of India the increase in the last five year has amounted to 33 per cent both in public expenditure and in that from private sources and to 50 per cent in the case of fees.

183 This large increase in the amount of fees collected due partly to the Feesrapid filling of schools partly to a raising of the rates requires special treatment.

184 The peculiarity of the fee rules in India is thit the rite rises as the (a) in governous proceeds through the institution. He generally begins by paying eight ment schools annis or so in the lowest class of a secondary school and finally pays about. Rs 3 in the highest. It has been recognised in Madris that this method is defective and is likely to be a frequent cruse of ill advised promotions. Other characteristics of the system are that fees are generally payable monthly and that the practice of prescribing rates for privately maniged schools or even uniform rates for government schools does not exist in some province. There has been a general tendency toward the enhancement of rates during the quinquenium. As any increase in the fees payable in secondary schools is

Such a committee met in *Indian* in 1960 10. As a result of its deliberations differential rates have been land down for the two terms (which differ considerably in length). The new rules also move in the direction of uniform the rate throughout class by presenting the sume terminal fee for each of the main divisions of the school at the same time time terminal fee for each of the main divisions of the school that the same time the rates have been raised so as to increase the cost of secondary education by about 22 per cent The change is being gra lually introduced \$1.0 Monbay\$ the rates were raised at the end of 1911 and here also the standards are now grouped together As there are no primary classes in secondary schools in Bombay the rate commences compartively high \$1\$ is \$18\$ \$1\$ amonth for the three lowest standards \$18\$ 21 for the next two and \$18\$ 4 for the two highest. This permits above togo through the whole secondary course at a cost in fees of \$18\$ 210 distributed over seven years. The similar action takes in the *United Prosinces* is two described in the report. The representative committee appointed to make the enquiry could not but endows the original disposions of the situation that a higher fee was just and could readily be paid and would present no obstacle to genuine elucational progress. It was found that managers wheemed the idea and many of them had already begun to levy fees at

liable to raise a considerable outcry among a certain class the revision of rules has in almost all cases been made through representative committees aided secondary schools are required to charge 75 per cent of the rates in posed in government schools. There is of course no control over privately managed schools which are unruded. The fee in these institutions is about equal to that in aided schools though it has not increased in the same propor

186 The result of these changes is that the annual incidence of the fee upon each pupil in a secondary school for boys is if we exclude European schools Rs 141 as against Rs 127 in 1907. The incidence in schools of different kinds is as follows.—

	1907	1912
Government secondary English schools	192	202
Board secondary English schools	13 5	11 9
Aided secondary English schools	11 8	13 7
Unaided secondary English schools	13 0	13 5
Aver	ige 12.7	14 1

The highest fee incidence is that in Burma (Rs. 26.3) the lowest is that in the North West Frontier Province (Rs. 7.3) Eastern Bengal and Assam is also remarkable by the lowness of its rate numely, Rs. 10.7 Bengal and the Punjab vury between Rs. 12 and Rs. 13. The rate in the United Provinces is Rs. 15.5 In Madras Coorg and Bombay it is from Rs. 17½ to just over Rs. 18. It should be added that the average numul fee of a pupil in a high school is now Rs. 18.3 while that in a middle English school is Rs. 8.3

187 The average annual cost of maintaining a secondary English school Average cost of for boys has risen from Rs 3563 to Rs 4516. The variations are consider school and able. The province which shows the chevpest schools is Eastern Bengal and pupil Assum where the cost is only Rs 2289. Bengal presses this close with Rs 2397. Schools are most expensive in the United Provinces and Burma namely. Rs 10244 in the former and Rs 11282 in the latter. It is note worthy that the committee which met in Calcuttria in 1908 considered that a privately managed school could hardly be decently maintained under Rs 6500. Tyear. The average annual cost of educating a pupil in a secondary English school for boys has risen from Rs 255 to Rs 283 of which Rs 66 is met from public funds. Rs 147 from fees and Rs 50 from subscriptions etc. Here also the cost is lowest in Lastern Bengal and Assam namely Rs 152 against Rs 386 in Bombay Rs 439 in the United Provinces and Rs 568 in Burma. The variations according to the management of the school are as follows.—

Average annual cost of educating a pupil in a government secondary English school	448
Average annual cost of educating a pupil in a board secondary English school	196
Average annual cost of educating a pupil in an aided secondary English school	26 4
Average annual cost of educating a pupil in an unaided secondary English school	19 4
Average for all	26 3

Mr Orange had stated its low cost as one of the main features of second ary education It was then Rs 25 5 Though much more is now spent the inrush of pupils keeps the average still almost as low

168 The developments which have taken place in secondary education General the Government of India addressed Local Governments and suggested the lines of a general policy Most of these points with some modifications are restated and amplified in the resolution of the 21st Tebruary 1913. It will be convenient in the first place to consider very briefly the progress in each province along the lines indicated in the letter of October 1906 and in para graphs 22 and 23 of the resolution—namely as regards government schools the establishment of these institutions in places which require them the desirability of employing only graduates or trained teachers the introduc-

Ra

tion of a graded service for angle veracular teachers with a minimum of Rs 40 a month and a maximum of Rs 400, the improvement of hostels, and the addition of modern sides install training and improved science teaching, as regards aided schools, the introduction of a corresponding degree of improvement, the increase of grants in aid, and elasticity in grant rules, and (see paragraphs 27 and 60 of the resolution) the strengthening of the superior imspecting staff, particularly for special subjects. The min points among these, as also other matters will likewise be treated separately in greater detail as special topics.

The Government of Modras framed a scheme for increasing the number of govern ment high selected from four to nineteen appointing some of the headminters in the Indian, others in the provincial cluentional service and fixing the pay it assistant teachers from Rs. 40 to Rs. 120. The scheme is still under on sudertion. Meanting, the infreduction of manual training is contemplated and the appointment of two instructors in this subject has been proposed. In Hombay there are 20 government high set ools. The pay of their lecalmasters has been raised to a scale of 18 500 at an annual cost of Rs 16 560, and a large scheme has been approved, and partly carried out of which prineight tens are the reveng of the minimum pay if assistant to 1k 10 (already extract out at a exist of 12 2000 a year), the further rusing of the minimum by graduates roughly estimated at 1k = 72 000 a year, the provision of a government high school in each of two districts which prayingly had the and of a fifth redunsator in the finding educational service it, entertainment of additional toxelers at a cost of Rs 30 000 a year, increase of aid to the amount of Rs 63 000 a year with the prospect of a still larger increase in the future, the appointment of three new impectors (one for science and one for drawing) and the development of secondary education in Sind The whole scheme, when fully carried out, is expected to cost over six lakhs a year, in addition to which heavy capital expenditure is to be incurred. A committee met in Calcutta in 1908 to work out schemes in accordance with the suggestions of the Government of India for Bengal and Fastern Bengal and Assim By reason of the large number of schools situated in these provinces and the deplorable condition of many of them, the sums myolved, especially for placing privately managed schools upon a proper footing were very large. This fact combined with the institute of the local tovernments to find the money, has prevented the financing of the proposals or their approval as a whole, thou, h consideral le improvement has been directed. In the United Provinces a representative committee was summoned at Anni Tal. as the me was formulated in 1907-08 as a result of its delil crations This scheme as ultimately unfolded, was calculated to cost government over 10 lakl 5 Much has already been carried out including the establishment of a truining college at Lucknow for under griluates and of three new government schools the appointment of a fourth headmaster in the Indian educational service and of four inspectors in the provincial service for oriental languages science and drawing and manual training the transfer of the district high schools, which were under I and and of the expenditure on grants-in aid to government and the improvement of the pay of the staff at a cost of Rs 1 20 000. These items were carried through at the cost of provincial revenues and by resumption of grants to loards. Other large items are the improvement of science teaching at the annual cost of over two lakes and reforms in aided schools A number of district high schools in the Punjab previously managed by municipal committees had been transferred to government during the preceding quinquennium. The reorganisation of the subordinate service at an annual cost of some Rs 91 000 and the appointment of a special instructor in drawing and manual training have been sanctioned An exhaustive scheme for Burma is under consideration and a similar scheme for the Central Provinces was sanctioned just after the close of the quinquennium The latter included the establishment of government schools though in some districts only nided schools were to be maintained, the appoint ment of an Indian educational service leadmaster for each division, and eventually of one science inspector the enlargement and improvement of the provincial and subor dinate services at a cost of some 32 lakbs, and the introduction of a new grint in iid code and the increase of grants by about a lakb a year. The Chief Commissioner of the North West Frontier Province proposed just after the end of the period the provin continuous des trouter trainer proposes assume to be un one period the profit calestino of municipal schools (the saving to municipal schools (the saving to municipal schools) for spreading primary education) the appointment of an Indian educati in a struce headmarker for Reshawar and the increase of grants in und calculated to permit each high school under private management an expenditure of at least Rs 450 a month

189 A further description of the condition of secondary education in each province dealing minly with statistical increwe and building opera tions will be found in appendix \subsection In the concluding section of this chapter certain salient features are treated. It will be convenient here to summarise the main aspects of the subject and to show the progress that has been made in the last five years. Secondary education is of prime importance. It is the pivot on which depend the progress of collegate and technical instruction the formation of the character of those who will exercise influence in

various walks of life, and the tone and intelligence of a small but growing middle class Mr Oringe noticed among its lending conditions that boys leave school on attenuing the age of sixteen or a standard of instruction which ordinary boys can reach by that age and that the total expenditure averaged in 1907 only Rs 255 annually for each scholar. Doubts may be entertained as to the advisability of fixing so low a limit to the school leaving age for pupils who do much of their work in a foreign tongue. The total expenditure has mere used during the quinquennium from £780 000 to nearly £1 110 000 The contributions from public funds have increased by over But the mere use from 173 130 to 667 065 pupils still keeps down the average cost to Rs 20 3 or about £1 15 0 a year. There are other symptoms. In some parts of India the secondary school has been almost totally uncontrolled and has lent itself to exploitation. A system of privately minaged institutions has arisen aiming to pass their pupils through an external examination rendered difficult of conduct by the mere number of candidates. Of these schools 31 a per cent still receive no aid from public funds and those that are aided receive 166 a year on the average. The condition of things is far more serious in the Ikngals than elsewhere. There the number of schools is constituted from the 1974 schools with 297037 applies being 685 and 583 rejectively of the totals for India) and a very small average grant is all that available funds can permit. Of some 88 000 pupils who appear annually to enter the secondary schools only 16 351 pass the final examination and only 2.742 graduate. In 1907 the Government of India took the question in hand and consideral le progress has been made in some of the provinces. Government schools have been improved a few Luglish headmasters have been appointed. The pay of teachers has been rused. In the United Provinces the State has resumed the management of schools and the responsibility for grants which had been handed over to the boards and in few provinces is secondary education now more carefully fostered whether in government or in aided institutions—the latter receiving a grant more than three times the average for all India Buildings and equipment have been greatly improved in several provinces hostel provision has kept pace with rising numbers the amount given is grant in aid has increased by 30 1 per cent. Lee rates have been steadily and judiciously rused. In three provinces a rational system of school leaving certificate is now in working order A commencement has been made with inspectors of special subjects and a modest beginning in the introduction of manual train ing Above all schemes have been prepared which will admit of the pursu ance of stendy programmes with the help of larger funds. In the two Bengals owing to the large numbers to be dealt with qualitative progress has been halting. But liberal grants and a system of supervision exercised by an increased stall training of teachers and more rational methods of instruction and examination have already begun over large areas of India to improve the condition of secondary education

111 -School life

100 The school boy who enters a secondary school may find himself in General any class according to his previous attrument. If it is a high school he will conditions to surrounded by school fellows of widely varying ages learning letters in the infant class or preparing at the age of fifteen and unwards for entrance to the final examination. If it is a collegiate school college classes also may be housed in the same or a neighbouring building. The school itself if a government school is probably a masonry building fairly commoditions situated in a compound which permits of play ing fields. If it is a privately managed school it may be as good a building, as thit possessed by the government in stitution or especially if it is a middle school (these exist in their hundreds in the Bengals) it may be a daub and wattle shed. If the boy's parents or relatives are living in the town he resides with them and goes daily to the school or a guardian may be found—a guardian being often interpreted as anyone with whom it is convenient for him to lodge or he may be placed in the school bottle. He attends the school some five hours a day and has pre

^{*} In Bombay the average age of matr culat on is said to be 13

paration work to do as well. His work is more or less directed towards an examination which it is the duty of the school to make him pass. The curulum he studies and the methods employed by the teacher are described later. He has holidays in the hot weather—a month or so a short holiday at Christmas time and a good many religious holidays during the year. Surfays are also holidays. And in Bengal there is a long autumn holiday the Durga Puja which may extend to another month or six weeks. Attendance is 80 per cent of the number enrolled varying from 84 per cent in government to 75 per cent in unanded schools.

Staff

191 The number of pupils per teacher is less than 20 as against 21 in There are altogether 43 324 teachers and 14 473 of these are trained The policy has been laid down that an assistant teacher in a government high school should be either trained or a graduate that his pay should commence at Rs 40 and that he should be capable of rising as a headmaster to Rs 400 Efforts have been made in this direction during the period. The conditions of service have been improved in Bombay the United Provinces the Punjab the Central Provinces and the North West Frontier Province But unless a man is a graduate or trained (and there are many teachers who have only passed the intermediate or matriculation) he is likely to begin his career on lower pay than Rs 40 If he has good qualifications or if he sticks to his work he is placed in the subordinate service (graded usually from Rs 50 to Rs 250) The school also contains teachers of classical languages who are not usually graduates but taught in the old school and often ignorant of English There are likewise a few purely vernacular teachers. In 1907 it was laid down that a few schools in evich province should possess a head master in the Indian educational service. This policy is being slowly but In aided mission schools the missionaries themselves often surely pursued take part in the teaching and are able to maintain a staff on respectable pay Elsewhere the pay is often deplorable and the teachers of many privately managed schools constitute a discontented and ever changing body. Especially is this so in the two Bengals. The committee which, in 1908 reported on the condition of secondary education in those provinces found that in a number of privately managed high schools no less than 1 317 teachers out of 3 223 teachers of English had not passed even the intermediate examina tion while training was quite unknown. Again out of some 4 700 teachers of English and of other subjects in the same kind of high schools some 4 200 were in receipt of less than Rs 50 a month and of these again some 3 300 were in receipt of less than Rs 30. The Calcutta University is reported to demand no more in a recognised school than that the headmaster should receive Rs 50 the second Rs 40 and the others Rs 25 The case of middle The report from Eastern Bengal and Assam schools is even more deplorable considers that some improvement has taken place when in one division the number of teachers in middle schools who have passed the intermediate has risen from 23 to 97 and of those who have passed the matriculation from 210 to 488 many English teachers have not even matriculated With teachers of such qualification and on such salaries little can be hoped for and it is not surprising that there are complaints as to the depreciated standard of the high school.

102 The reports state that training is baving its effect. In Bombay it is considered that the general level of teaching power in government schools has been immensely raised by the institution of the Teachers College Burma offers reasonable pay for certificated teachers—a certificated teacher of English in un added middle school starts on IR 80 a month and may rise to Rs 140 in an added high school be starts on IR 8140 a month and may rise to Rs 300 while special allowances are granted to headmasters. In Burma the cost of living is high and these rates are for trained teachers but these figures contrast startlingly with the minimum pay prescribed in high schools by the Calcutta University. The trouble about trained teachers is that the supply is at present limited. This is shown by the general figures given in the last parawraph. We de la Fosse also supplies figures for divisions of the United Provinces. In the Benares division there are 323 teachers 30 are trained and nine are graduites—ind of forth. But it is hopeful that appreciation of the trained teacher is growing. It is recorded that recently

seventeen applications were made by schools to the Allahabad Training College the average pay offered being Rs 82

103 Thus the kind of instruction which the school boy finds differs great Discipline ly in degree according to the nature of the institution which he enters. So also does the discipline to which he is subjected. There are many well ordered schools and many too which are conducted on laussez faire principles either because the teachers have not had experience or because they do not regard the exercise of authority as a prime part of their duties or because restraint and punishment lead to the withdrawal of pupils and a falling off in the fee receipts It must be added that the conditions of work often carried on in crowded and unsuitable rooms and the presence of classes of very small boys do not make the task easier. In Madras discipline is well maintained The introduction of the school leaving certificate has put into the hands of the headmaster the power of making remarks about character In Bombay government schools have improved in discipline in private schools it is not up Not says one of the inspectors that the boys are given to to the mark active indiscipline, there have in fact been very few instances of such a thing during the past five years. But discipline is generally lax and the boys are to a great extent left to themselves the school has little influence over them and is regarded simply as a place where instruction in English and other subjects required for the matriculation examination is given' This reveals a basic fact regarding much of secondary instruction as understood in India Another important matter is the slender control which parents often exercise over their sons. One inspector complains it is the boys and not the parents who frequently choose the school they shall attend. The Bengal report says that home influence is too often actively hostile to the schoolmaster's efforts "If a loy is punished the parent does not wait to enquire whether the punishment has been deserved or not but makes a complaint to the managing authority against the teacher or begins an intrigue against him by way of revenge. This want of a wholesome public opinion leads to slackness in the school Thus Mr Covernton states that in Burma a fertile source of trouble is a propensity to 'crib' in examinations which is too often pandered to by the lavity (to use no harsher term) of individual teachers. Mr de la l'osse speaks of the difficulty encountered in obtaining the adoption of imperative measures ly the authorities of a certain school under private management which had fallen into hopeless demoralisation. The Government of India considered it desirable in 1911 to address Local Governments on the recogni tion by teachers of the true position of the parent. The issue of quarterly or annual reports on pupils and the holding of parents meetings on social or ceremonial occasions show that the point is receiving attention

101 The Indian school boy when in normal surroundings is easy to manage and not prone to active indiscipline Mr de la l'osse remarks that though no more a paragon than the school boy in other countries there is no need to paint lurid pictures of him. But trouble arises when external influ ences play on his somewhat plastic feelings The Burma report speaks of strikes in certain schools abetted from outside. The action of the political agitator in regard to schools has been so notorious in some provinces that but little allusion to it is required The reports from Bengal and Eastern Bengal and Assum speak of demonstrations picleting the destruction of foreign goods and national volunteering Pspecially regrettable are those instances where teachers have propagated sedition in the schools Such instances are mentioned in the Bengal report and that from Bombay relates that several teachers were found to have been involved in the murder of Mr Jackson and the attempted murder of Colonel Ferris

The resolute attitude taken by the attempted murder of Colonel Terris government writes Mr Prior the disciplinary rules published by them tle suppression of pernicious schools and the wide dissemination of temperate views in the Jagad Vritta (a subsidised paper) have brought it about that our masters among the first have come to see that nothing but anarchy and ruin can result from the propagation of such doctrines Elsewhere he adds that all respectable parents have now come out on the side of law and

195 As to moral and religious instruction games and other such influ Hostels, etc ences sufficient has already been said in a general way. And the question of

hostels requires no further treatment. These are matters which vary greatly from one school to another according to its character and management. Suffice it to say that 50 481 boys of secondary schools now live in hostels as against 35 575 five years ago. Owing however to the great increase of pupils the percentage of those so housed has not risen. It was 7 6 per cent. in both years

Promotions

196 The subject of final examinations in the secondary course is so im portant that a separate section is devoted to it. Class promotions are gene rilly made by the teaching staff. Here again the staff of the weaker schools must often seek to please. Sir \ Bourne mentions common com plaints of the laxity of headmasters in making promotions and of their acces sibility to parental pleas for mercy. Nor are the teachers always to blame School managers too often interfere in promotions in this as in other mat

ters they shrink from entru ting the school staff with responsibilities that legitimately belong to it with the result that headmasters are far from having in purely school matters that position of freedom from outside control that

Examinations and scholar ships

experience proves is the best guarantee of efficiency 197 Formal examinations save for the final (be it matriculation or some other kind) have been abolished. In some quarters this is bewarled as a cause of deterioration. Mr Godles says that the abolition of the anglovernacular middle school examination has not been an unmixed benefit since its discontinuance removed a useful check on indiscriminate promotion and is considered to have thereby lowered the standard of instruction in the high classes frequent requests are consequently made for its revival stances have been reported in which promotions were not merely given too freely but even sold to pupils * At the same time a considerable body of opinion holds that whatever new evils may have been produced by the dis appearance of these tests the general standard of instruction has improved without them In Bengal an examination called the primary examination is actually retained at the close of the middle stage for those who conclude their school career at that point. Its conduct is entrusted to the school teachers and private gentlemen. The report says that the large number of candidates appearing would lead to the conjecture that it is not limited to those who are definitely ending their education the percentage of passes is conspicuously large and an opinion is quoted that the abolition of the old middle scholarships examination in Bengal was premature and should have been deferred till schools could be entrusted with the conduct of an in situ test and the controlling staff had been strengthened. For scholarship pur poses indeed middle examinations are still used. But these are not general examinations In the Bengals only selected candidates are permitted to sitordinarily two boys nominated by each school. Junior college scholarships are awarded on the result of the matriculation or other final test scholarships carry a pupil through the high stage and are generally of Rs 4 or Rs 5 a month Junior college scholarships are held for two years till a student passes the intermediate they are ordinarily of the value of Rs 10 to The total amount spent on scholarships tenable in second Rs 20 a month ary schools has risen from a little over four lakes to Rs 5 49 096 of which Rs 438435 are defrayed from public funds

IV -Tle grant in aid system

Character of the grant in and system

198 In the case of primary schools the grant in aid system I as generally broken down It was initiated and is maintained in the case of secondary education not because its results are in any way better than those attained in government schools but by reason of its cheapness and the devolution of authority it permits to local endeavour which it was expected would super vise these institutions. The weak point in the system is as pointed out in the resolution the fact that its underlying idea the subvention of local organised effort has not always been kept in mind. Tew secondary schools are endowed says Sir A Bourne and the absence of endowment makes them too dependent on their fee collections and oblives them to have in mind not so much an ideal of education as the demands of the pupils and their parents

"The angle-v reacular m ddle school exam nat on was renst tuted in the North West Front er

Again those schools which are not on the aided list are insufficiently con The control exercised by the department says the report for Eastern Bengal and Assum still rests on a very slender basis. The entire manage ment of many of the schools is in the hands of the proprietor or his agent and the so called committees of management exist only in name They are not bound to conform to the rules and regulations of the department the only hold which the department has over them is derived from the power of withdrawal in extreme cases of mismanagement of their right to partici pate in the government scholarship system and from the exercise of its discre tion in refusing to recommend to the university the continued recognition of high schools

199 Hence while there are many excellent uded schools (especially Description of among those managed by missions which generally contribute some private privately

funds and still more important some principles and practice of management managed and discipline) not a few nided and large numbers of unaided institutions are sclools very inferior places. The instruction is not up to standard. The report from the United Provinces notices that in Robilkhand while 18 out of 35 candidates from government schools gained scholarships only two out of 34 were successful from schools of other kinds In the Eastern Bengal districts government high schools passed 80 8 per cent of their candidates at the matri culation of 1912 aided schools 60 1 per cent and unaided schools 59 5 The I seutenant Governor of the Punjab remarks on the tendency of certain private institutions to sacrifice quality to quantity and the report from that province observes that while in publicly managed schools the cost of education per pupil has risen during the quinquennium in aided institutions it has fullen by over Rs 3 But the inferiority lies much more in surroundings recreation discipline and those other elements that go to the formation of character The report from Eastern Bengal and Assam states that the schools which have grown up under the system of encouraging private enter prise are not such as the founders of secondary education in India ever dreamed of the majority have sprung up indiscriminately without adequate resources direction or control and the following description is quoted -' High schools probably in the whole of Eastern Bengal are generally of weak organisation owing partly to the want of funds and partly to absence of proper departmental control Schools were allowed to be started and recog nised in large numbers without due provision having been made for their

almost everywhere Terchers are poorly paid and consequently in many cases incompetent Continuity of work is out of the question agreements re seldom taken nor are the teachers willing to give them considering the small pay they receive There is therefore frequent change of teachers to the prejudice of discipline and progress. The higher posts are generally held by candidates for the Bar who quit their posts as soon as they pass the law Apart from the question of inefficiency of staff the schools suffer from unhealthy rivalry The managers and the teachers alike are anxious to swell the number of their boys and promotions and admissions are as a matter of fact allowed in many cases without any restrictions Great leniency is shown in the selection of candidates for the entrance examination The system of terching is also defective. There are prictically no trained terchers and cram is openly encouraged. A vividly written monograph by Mr F W Marrs acting educational inspector in Sind is given as appendix XIII It sheds a flood of light-upon secondary education as too often under stood at present in India 200 The rules in vogue in the different provinces regarding mainten Pules of grant-

support and efficiency Buildings are generally bad appliances are wanting

ance building and equipment grants have been summarised in appendix XII in-aid A few words are required here about the features and working of systems of muintenance or recurring grants In all provinces certain conditions are laid down which must be fulfilled before a school can be recognised as eligible for The principles which underlie the rules aim at making the aided school efficient and at the same time insisting on a reasonable amount of self help by way of subscriptions and fees the fixing of the latter at a rate which will not permit of improper competition and the use of the subsidy given in the best minner. In no province does the system now depend upon results-

save to a very modified extent in Burma. The systems may be grouped into three classes according as the grant depends upon (i) the amount of private income, (ii) the class of school, the attendance, the qualifications of teachers, etc. (iii) the difference between the private income from other sources than grants and the amount required to place the institution on a basis of reasonable efficiency. This classification is not, of course, a perfect one, for the considerations specified under the second head more classifigure as general conditions to grant in other cases while the actual expenditure and private income must always be regarded as factors determining the limit of the aid permissible. It must also be premised that the rules deal with maxima and that a school cannot ordinarily demand the maximum grant as of right.

(i) To the first class belong Madras and (nominally) Bengal In Madras the grant my equal the income from private sources exclusive of fees which do not count as private income, of such expenditure as is required to make up the fee income to what it would be at government rates and of expenditure on scholarships. This scheme has the advantage of insisting on organised local effort and proper fee rates In Bengal it is laid down that the grant may not exceed one-half of the income derived from private sources inclusive of fees, save in certain districts, where it may equal two-thirds As a matter of fact, the income derived from private sources (and shown as spent upon the schools) is Rs 14 01,384 and the grant from provincial, board and municipal funds is only Rs 3 82 023 From this it is obvious that the rule is in practice ineffective, preserving as it does a maximum which is not approached (ii) The majority of provinces fall within the second class. In Bombay indeed, the maxima are limited to one half the local "sests or one third the expenditure, but the actual grant is assessed upon a general consideration of the school—its buildings and equipment, attendance of pupils qualifications of staff, quality of education discipline and provision for physical exer qualineations of sain, quarity of neutrinois discrimine and provision for payment exer-cises. Recently certain concessions have been made whereby struggling or incipient schools cun obtain temporary grants. In the United Provinces grants are given (within certain maxima) in two ways. There is a face grant according to the sections included in the school e.g., in the case of the high section, Rs 750 a year. Also, a grant of Rs 3 a year is given for every pupil in attendance in the high and middle sections Morea Year's given for every jupin in accommendation to the figure and another eventual properties of the Panjard also the main grants are and a divided into preliminary and additional. In the Panjard also the main grants are of two kinds. First, there is the block grant has do not the average attendance of the post three years. The maximum rates are R. 2 a year for each pupil in the lower primary section, R. 8 in the upper primary Rs. 16 in the middle to all R. 21 in the high. But here the question of efficiency of uppils, as tested at the annual inspection is taken into consideration, while those classed as generally satisfactory earn the full grant, those classed only fairly satisfactory earn 75 per cent And while grants at a rate below 75 per cent may be given only when the retention of the school as an added institution is in question, instances of exceptional ment may gain grants 20 per cent in access of the maximum Secondly their are stiff grants. equal to one-third the salaries paid to certificated teachers and monitors under certain conditions. The report says, "With a view to offering the managing bodies of aided schools more encouragement to improve their staffs and equipment, the rates of grants to these schools were considered and revised at the close of the quinquennium rates of attendance grant in the lower classes were raised, and the scale was made more equitable throughout. The rate of staff grant was raised from one fifth to one-thirl, contributions to provident funds were allowed to count as expenditure on tuition and the condition limiting the maximum grant was relaxed Under the new rules schools will be able to earn considerably higher grants than before, provided that they increase will be able to evan considerably higher grants than before, provided that they increase their expenditure and they will have greater indexement to raise teachers' salaries'? The rules in the Gentral Provinces are generally the same as regards both maxims and methods of avesement, with those in Bonn's (iii) There are various kinds of grants in Burma but the system is largely of the third class. Grants are subject to the general efficiency of the school as shown for the results of annual promotion tests (if less than the state of the school as shown for the results of annual promotion tests (if less than the state of the school as shown for the results of a short promotion tests (if less than the state of the school as shown for the results of the school as labeled to the school as the scho tercher, but subject to a maximum manner of the your amount in each case, results grants for technical subjects payable on the result of annual examinations, and extra grants examel to three histories that the imperior in drill and gymnastics. Secondly, there are relineary grant who have a former on the difference between the expenditure and the mecome as chinary grants executives on the unresour occasion are expenditure and the income as unite up of few subscriptions estars and certain other special grants. Finally, in the case of permanent institutions of recognised efficiency the grants which have been carned for three years in the ways specified above may be transmuted into fixed grants. tenal le (subject to the continuance of efficiency) for five years It will be observed that the at pendix gives no rules of recurring and for Fastern Bengal and Assam In theory the system renamed as in B agal and the grants given under that system were crimus.] But in practice cases of newly aided schools or schools where the grant was to be enhanced were treated differently. The maximum of about Rs 540

in in the laid divined the conference of 1908 as the minimum in the case of privately in triged a last a sixthen as the gradient which management was induced to raise by call ancel fees or subscript as an engineer of the difference between the actual cost of the sixth and the standard accepted, while government found the remaining three quarters in addition to any grant previously given.

201 The percentage of uded secondary schools to the total of privitely Amount of aid mininged secondary schools is 68.4 The average numed amount of aid given guen from public funds in the case of eith subsidised institution is Rs 990. In the United Provinces the Punjab Burma and the North West Frontier Province the grant averages from Rs 2.500 to over Rs 3600 a year. The lowest figure is that for the two Bengals, this is explained by the large number of schools—where the high schools number 622 against 588 for the rest of India and initialle Inglish schools number 1517 against 927. Apart from unrided schools the percentage of cost in an aided school which is defryed from public funds amounts to in average for all India of 22.6 per cent of the total cost. The strictics do not show the amount given towards buildings and ecuionment. I or no object is money more urgently needed than to rescue

secondary education from the backwater into which, too often, it has floated

202 The second irv course in India has in the past been ruled by the con Kinds of cluding external examination. There is a tendency on the part of the parent courses and of many teachers to insist that the whole course must be shaped to this end from the beginning The universities have framed the matriculation as a test of fitness for admission to their courses. Considerations of a wider training have been limited to the primary and middle stages. After many veirs of experiment and comparitive failure several administrations have now succeeded in prescribing schemes of study which have wholly or partially supersided the university examinations. Thus the subject of curricula di vides itself into various heads (i) There are the university matriculations which still direct the course in the highest classes for the majority of pupils (ii) There are also the alternative leaving tests which are of two kinds those which are intended as a test of general training leading on in Madras and the United Provinces to the university or to employment and in Bombay to employment but not to the university, and (iii) those which like the B and C finals in Bengal are intended for special purposes. This part of the subject so far as the questions of a modern side and of examinational methods are concerned is more fully treated in the concluding portion of the present sec (ir) I inally there is the course devised by various departments for the lower classes where a strict attention to the examination goal is not required

203 The curriculum for the high stage comprises the subjects set for the (1) Matricula matriculation of the universities save where these have been superseded by tion courses other tests. The general scheme of the matriculations is shown in appendix IX. Five or six subjects are required. Ordinarily history and geography and two sciences (e g physics and chemistry or chemistry and astronomy) are grouped together as a single subject. Alternatives are always offered between any one of a list of vernacular languages and also between any one of a list of classical languages Beyond this limited choice the Bombay matriculation offers no alternative but a rigid list of six compulsory subjects On the other hand the Punjab University offers three distinct courses-in arts a science and an oriental matriculation in the last of which I nglish is now compulsory though at the beginning of the period this was not the case. In the other three universities the subjects are partly compulsory partly optional. Calcutta demands four compulsory and two optional subjects Madras four compulsors and one optional Allahabad three compulsors and two optional The following points may be noticed as characteristics Calcutta and Bombu, insist on a classical language, also the Punjab save in Madras insists on either a classical or a vernacular lan its science course guage Allahabad offers both but insists on neither. All universities require mathematics as a compulsory subject. All similarly require history and geography save Calcutta which admits these two subjects as optionals Science is compulsory at Madras and Bombay and is an optional in other universities save Calcutta where however elementary mechanics can be

offered The science subjects are physics and chemistry, but Bombay substitutes astronomy for the former No university demands drawing though the Punjab and Allahabad admit it as an optional subject. None admits hygiene, even as an optional, save the Punjab And manual training does not figure in any scheme

(11) School final courses

204 The various school final examination or certificate schemes will be described later in this chapter Something must be said here of those that have attained some measure of popularity-the Madras certificate which has practically ousted the matriculation in that presidency and neighbouring States, and the Bombay and United Provinces final examinations Madras scheme admits of infinite variety There are only three subjects, called A subjects, which it is assumed all schools will take-English, verna cular composition and translation and elementary mathematics. The next, or B group, comprises subjects which it is also expected will be taught in all schools, but which are not regarded as examination subjects-geography, Indian history, science, drawing, physical training domestic economy and needlework The C subjects form a list of specialised optionals on which examinations are held Obviously a course thus constructed offers great scope for originality in schools, and, since examinations play a secondary part in the earning of the certificate, a general and practical training becomes possi ble for the candidate The Bombay school final course resembles the course for a matriculation in that it requires four compulsory subjects (English. arithmetic, vernacular and the history of India with general geography) and one optional Various changes have been introduced into the examina tion during the period Questions in history, geography and the classical language may be answered in the vernacular-an option which, says the report, is not likely to be often utilised so long as the matriculation domi nates the high school course A combination has been attempted of Indian and British history including a brief reference to modern conditions in England and the empire and also the British administration of India To make room for this, the history prior to the Tudors and the Moguls is ex cluded from the examination, its inclusion in the course being assumed geography syllabus has been framed, which includes a portion of physical geography, insists less on memory map-drawing and centres on the relation of cause and effect as the really important element in this kind of teaching Similarly in the United Provinces the school leaving certificate examination is held in four compulsory subjects English, mathematics, the history of India (including administration) and geography, and a vernacular and in one optional The difference between this examination and a university matriculation is rather in method of testing than in subject matter. The effect is thus described in the report -

"Spoken English is decidedly better, all written work is in much better form labits of neathers and carefulness are being formed, the year's work is better organised, and exercises are more conscientiously corrected. Generally, the work done is more system, atte and intelligent. Some old bad things have been put in end to and meaning attending their place. The schools sum at something higher and are learning methods are taking their place. The schools sum at something higher and are learning to aim better. There is always a tendency in the human mand to expect to much from the invention or modification of machinery, perhaps in India there is a tendency to attach too much importance to 'schemes' as such. It is well to remember that the value of any educational scheme, especially an examination must depend on the agency it works with and the spirit in which it is worked. In this respect the school leaving certificate has started well. A good deal of very streamous work has gone to its institution and development and a high standard of examining—a matter of the highest in mortance—has been set up. These things are of good sugary for the future and those who know the schools as what it has already beyon to tell?

The examinations in Burma and the Central Provinces have appealed to but few pupils and will be noticed elsewhere

(111) Special

205 Part of the scheme of studies for Bengal published in 1901 was the institution of B and C final classes. They offer a differentiated course during the last two years of school life. The B classes were attached to ten high schools (seven of which were in Lastern Bengal districts) situated in places where technical institutions are also found. The literary part of the course is pursued in the high school elementary engineering and manual training in the neighbouring technical school. The course was designed as a preparation.

for technical studies, and special inducements were held out in the shape of reserved scholarships and the privilege to successful candidates of admission to the second year of the technical school sub overseer classes The B class final examination board sits in Calcutta and controls the examinations scheme has not succeeded In 1912 only nine candidates presented themselves in Bengal, of whom seven passed In Eastern Bengal it has proved slightly more popular, 1,195 students attended during the quinquennium and 180 passed The report from Bengal ascribes the failure to the fact that these classes are a refuge for the destitute unsuccessful pupils who have no idea of specialisation but merely a hope of securing some qualification which will act as a passport to government service The Eastern Bengal and Assam report adduces another theory—the difficulty of the test as compared with the matric The examination board has recently made a recommendation (which has obtained sanction) that engineering be omitted from the course, only mensuration and elementary chain surveying being retained, and that the privilege of admission to the second year of the sub overseer classes be withdrawn Several weights opinions are in favour of the abolition of the classes The C or commercial course was also introduced in ten schools comprised modern English, geography, practical geometry and manual train ing, the science subjects previously prescribed were recently changed for a study of the vernacular The classes have been a complete failure, in 1912 only two candidates presented themselves, of whom one passed The Eastern Bengal and Assam report observes that the course led to no recognised exami-nation and no certain career The suggestion may also be hazarded that the course is not sufficiently specialised to enable the candidate to secure immediate employment The private commercial schools which teach only accounts, shorthand and typing are much more successful, but they offer no general course of instruction Commercial and clerical classes are held in certain schools of the Punjab The examination is conducted by the university and includes shorthand, typing, piécis book keeping and commercial geography There were 82 candidates in 1911, of whom 29 passed Perhaps the more special nature of the course has saved this scheme from the fate of the C class in Bengal

206 The prescription of the middle and lower course is in the hands of (iv) The course the departments. The course aims at giving a general education up to ain lower certain stage. The most notable change chromoelde in the reports is the break classes in any from the Bengal vernacular scheme of 1901 in the two provinces where it formed the curriculum of high and middle schools up to the last four years. The causes of its unpopularity have already been described and

four years The causes of its unpopularity have already been described and the general neture of the changes made respectively in Bengal and in Eastern Bengal has been briefly indicated The Bengal report describes those changes as follows —

- "(i) English should be trught by the direct method for a longer period than formerly in all classes from VII B to V inclusive of a high school which correspond to standards III to VI of the vernacular system
- (ii) The time required to pass through the infant stages was reduced from three to two years
- (iii) Books containing easy extracts from general literature were substituted for the sceneor redors of the vernacular system. It was considered that children of the age for whom the lower primary course was intended were incupible of learning sceneor for generalizing from facts belongs to a later stage of metal discipline and instruction with this aim can only be given if the power of intelligent and accurate observation has been first developed.
- (v) Teachers' manuals a junjor (for the teachers of the infant sections and stand and and I) and a senior (for the teachers of the higher standards) written by authors who were considered experts in teaching the subjects about which they wrote were prescribed.
- (v) Separate books were prescribed for the higher standards in nature study hygiene and geography The first two subjects were taught in the science readers of the verna cultivities system. A science reader on natural phenoment was prescribed for standards III and IV, and another on animal and plant life for standards V and VI.
- (vi) The new syllabus of studies for standards V and VI has drawn a line of demarcation between middle English and middle vernacular schools, and has prescribe a separate courses for them "

The new curriculum in Eastern Bengal and Assam is a compromise between the scheme of 1901 and that which was in force before that year. The medium of instruction remains almost altogether the verificial to the four top classes, are reched. But more English instruction than formerly is permitted in the lower classes. The text-books have been altered and book work reduced to a minimum by the pre-cription of oral teaching in such subjects as history and geography, object lessons and drawing find prominent places, and the conversational method of teaching English has been adopted as the best method of imparting a working knowledge of a foreign language without putting an undue strain on the pupil's memory. It is satistatedry to note, says the report, "that this curriculum has been

It is satisfactory to note, says the report, "that this curriculum has been received favourably and that even the unaided high English schools, which formerly ignored the vernocular system of education, have at least professedly adopted it. But the lack of competent teachers renders the guing of oral lessons difficult. Manuals have been produced as a temporary assistance for the teachers. These contain instructions and a certain number of model lessons on which the teacher may base his methods. But so ingrained is the habit of cram that, it is reported, the pupils (save where this is strictly forbidden) now possess themselves of the manuals intended for teachers and learn them by heart. The courses have also been recast in the Punjab and Burma. Mr. Godles axis of the Punjab.

"The general scheme of studies for schools in the Punjab has not been materially altered since it was introduced some twenty years ago, although the methods of feaching the various subjects have been improved. During the quinquenium ending in 1907 geometry was substituted for Euclid. Otherwise the old-e-tablished text books remained. virtually unchanged, and many of the teachers had become wedded to the idea that all the knowledge of a subject and even of a language which could fairly be expected of them was to be found within the compass of the book which they had been patiently teaching since they entered the profession Re-arrangement of curricula, revision of syllabuses and substitution of improved text books seemed to be urgently required. To attempt to recast curricula wholesale without full discussion and careful elaboration would have been a rish undertaking, and the policy followed during the Jeriod under review has been to prune away acknowledged defects and to accustom the teachers to a wider choice need to prune away nearous religied circles and to occusion the reactions of a right choice of text books thus preparing the way for the introduction of courses of study arranged on sounder and more modern principles. Such courses were framed and criticised at successive conferences, with the result that by the close of the quanquennum a completely new scheme, which is now being resued, was completed. The main changes effected during the period were the abolition of text books of translation and district geographies the issue of new syllabuses in Linglish and geometry, the authorisation of a large number of alternative text bools the introduction of 'supplementary' readers for rapid reading the extended use of the vernacular as a medium of instruction in the lower classes of anglo-vernacular middle schools the substitution of a new history of India and other improved text books, the discontinuance of text books of English history in the higher classes the extension of science teaching, and the adoption of the direct method of teaching English All these were intended to be preliminary steps to the issue of a new scheme of studies and although it is difficult to wear the more conservative teachers from old fashioned methods, there are signs that progress has been made "

Burma is the only province where the study of English is permitted from the earliest class. Mr. Covernton says —

'During the quanquennum the revised anglo-vernaculir curriculum has come into general use. Its most important festures are the restriction of English in standards I II and III to what can be taught by oril methods only. English reading and writter being begun in standard IV, the abolition of an infurit's standard and the addition of the third vear to the high school stage, standards thus rouning from I to X instead of from infants to IX. Other features are the adoption of the 'new methods' in teaching English and the emphasis laid upon the extension of object lessons and the principles underlying them. The effect of these changes has been to promote the study of the vernacular which was often neglected prerunder, especially in the earlier standards, to enable children to study other subjects through the medium of the vernacular in a more thorough and intelligent fashion and to provide for a longer and deeper study of higher English and other advocation and to provide for a longer and deeper study of higher than the strength of the study of th

and relied on the use of English readers' ab unito as a lure to swell the numbers an their lower primary standards. It was also disliked by not a few Burman and Chinese parents whose main desire was to have their children taught a smattering of English eleters as early as possible. Later as the system became better understood opposition diminist of Experience however his shown that the fourth standard is a less commented point at which to introduce English reading and writing than stundard, III the lover of the two upper primary standards. Hence at the end of the quinquennum permission was granted to managers who so desired to begin the teaching of English reading and writing in the latter standard at first through online these his presenting and writing in the latter standard at first through online has given general satisfaction and the practice in Burna will now be similar to that adopted in most British territories and possessions where English is not the mother tongue. Minor change in the way of affording more freedom in the distribution of such subjects as geography geometry and Lynammar over the middle standards have also been allowed.

207 Owing to the literary character of the courses required for final Manual train examinations manual training has been neglected. It has been observed that ing no university insists on drawing as a compulsory subject. It is included in the courses framed by the departments but often little or nothing is done in institutions where the departments have no proper control. Other forms of manual training have been almost non existent. But the matter is now en gaging the attention of certain Local Governments Sloyd is taught in some of the anglo vernacular schools of Burma Madras and the Punjab are procuring trained instructors from Europe In the United Provinces a promising beginning has been made Manual training was introduced during the quinquennium and is in full swing already in a few schools There are signs that its value is becoming more widely recognized but until there is a sufficient supply of qualified teachers and schools can be properly equipped it is not advisable to push the subject too vigorously just yet requirements of a standard equipment have been published for general in formation lest managers should too lightly undertake to introduce it in their Manual training at the Allahabad Training College is very popular and is producing the best results. For the way in which he has organized the work the principal Mr Mackenzie deserves special commendation supply of competent instructors will not be long delayed for Mr Kempster the principal of the Lucknow Training College not to be outdone is also about to open a workshop and with most praiseworthy zerl has been devoting a good deal of the leave he has recently taken to acquiring up to date methods The few candidates who have presented themselves in this subject at the school leaving certificate examination are reported by the examiner to have acquitted themselves quite creditably

I I - Methods

298. The topic of courses leads to a consideration of the methods employ Delects of defendence method in India (as in some other countries too) suffers from teaching the lack of sufficient truining facilities and the tyrainy of the external examination. Subsidirity causes that tell against improvement are the poor pay attricting to the post of teacher and the particularly unalluring prospects in privately minaged schools the consequent high of regarding the profession is a stepping stone to other things the necessity of attracting pupils to schools that depend munly on fees by the adoption of methods purely designed for examination results the slender control exercised by the inspecting staff and their total exclusion from any sonce in the final text. A deplorable symptom is the prolific output of kess. In Eastern Bengal und Vsam alone 144 keys were produced during the quanquenium. These are not limited in Inglish works, but attempt explinations of vernecular text tooks as well generally a string of synonyms. Their number and their high price indicate their popularity. Even more deplorable is the fact that in many schools of certain provinces the texchers do not suppress the use of these works—nay it is to be ferved even encourage them. The writer cannot refrain from a personal reminiscence—the shock he received on entering a privately minaged school in Extern Bengal to find that not only all the pupils of a certain class but the teacher himself were studying the duit lesson from hers to the text

original work it was considered utheient if the key was immorised. This is an extreme instance. But an examination of the pupils books generally discloses (in ill controlled schools) almost as many leys as text books. The patent defects are craiming a failure on the part of the teacher to ask questions or stimulate thought the labit of lecturing or the duffers of long notes to be learnt by heart, the treatment of subjects like history and geography as ordinary rading lessons the attempt to impart knowledge, through I rightsh before the pupils on understand that languige the neglect of practical and minual work (such as drawing) which does not tell an examinations and too often an undestrable slovenliness in written exercises. In well managed schools (those which possess a leavening of trained teachers and where the westness of the organisation lies in the fact that the diploma gained too often has equal value whether the pupil has frequented as sel on where good inct of and thoroughness are the order. Systems of sixely less are regulated as the context are calculated as the context are defined as a region to the context are defined as a region to the context are defined as a region to the context of the context are defined as a region to the context of the context are defined as a region to the context of the context are defined as a region to the context of the c

Improvement in certain protinces school leaving certificates are calculated partially to remedy these defects 200. It is a matter for congratulation that reports speak of marked improvement during the quinquennium. This has taken place (as was natural) where care has been bestowed on the training of teachers and where rational school leaving tests have been adopted. In Ma tras a solid advance is record ed. Of course results differ in different circles and schools, and the usual defects still linger. One inspector complains that history has nowlers received local treatment no school has specialised in any short period of Indian history in any particular feature of geography or in any one branch of science. Another says that it is insufficiently realised that I nalish is a foreign language and must be taught as such reformed methods are only adopted in name and the terchirs preparation is usually inadequate. Another observes that history is still inadequately treated teachers give notes slavishly on every point some do not try to prevent the larning of books or notes by heart, the subject gives the teachers too many opportunities. to spout and to presuppose too much knowle lige in the class without troubling to elicit their ability by questioning. Another remarks that pronunciation leaves much to be desired though attempts are being made to improve it by the use of phonetic script But Sir A Bourne says of Madras that the conception of the functions of an inspector has greatly developed during the quinquennium. It is now a commonplace that inspection work should be constructive the inspectors spare no pains in improving method and despite some mevitable disappointments it is evident that a real reform is in progress The direct method of teaching Inglish is now almost universally employed and with marked success. Composition is attended to and boys are encouraged to read outside their text books-a reform to which the uni versity has contributed by dispensing with the requirement of a detailed knowledge of prescribed works and the inclusion in the matriculation examinution of composition subjects taken from those and other books mathematics" he continues "practical methods are increasingly employed and the prescription of syllabuses in which the artificial barriers raised be tween arithmetic algebra and geometry are broken down has done much to rationalize the treatment of the subject. Science teaching is probably least well done There are some schools with well equipped laboratories for pupils work but these are exceptional and outside them it is not surprising if work in physics and chemistry is still little better than text book study with at best a few demonstration experiments. History and geography teaching lave been greatly improved. The making of relief maps and maps to show special features such as climate distribution of population and trade routes is common Teachers strive to represent the facts of both history and geography in their crusal relations

210 The Bombay report emphasises the excellent effect which the open ing of the training college has had on teaching but does not give details. Mr de la Tosse shows that improvement has taken place in the United Provinces in every subject. In English though in the inferior class of school the old weary round of reading translation and parsing still continues as ineffectual as it is monotonous—the introduction of more intelligent methods.

has worked a great change The director cites the following passage from Mr Bilgrams report

I would like to make mention of an interesting experiment which was carried out last yeur in the Anglo Vernacular High School Deoria. In this school class III where English is begun was divided into two sections. The one section was put in charge of a teacher who taught it by the direct method while the other section was taught in the ordinary way to read the primer by another teacher of the Six months after this experiment had been in progress I examined both sections of the six months after this experiment had been in progress I examined both sections of the six of the section which had been taught in the stand simple spoken English. For example if a sked in the section which had been taught in the world in the part in the up and spent's milar easy sentences. They had they could refet a book or sharpen a pencil the boys would understand give the primer that out of the primer and it translate any sentence in it just as readily as the boys of the other section who had been regularly faught the primer and they had a better pronunciation. They could not also construct sentences with the words of the primer. The boys of the second section who had been raught in the usual way were up to the average of class III so far as jroffenency in the primer was concerned but they could renter make original sentences in English nor understand English when it was spoken. The difference between the two sections was very marked. These results in the use of the direct method were obtained by a teacher who was ne ther tra ned nor in any special way qualified to apply the method except that he had a nutral aptitude for teaching. I have no doubt that a truncal teacher specially versed in the direct method would have obtained even more striking results.

Of mathematics it is said. The raising of the average standard of professional qualification and the undoubted improvement in methods produced by the system of keeping school records and the insistence on neatness have certainly brought about a change for the better in the higher classes. The advance in neatness appears to be due to the abolition of the rough book in schools—a volume in which the pupil did all his written work in every kind of subject and the substitution for it of separate everous book. Another inspector speaks of the improvement in the teaching of modern geometry, he adds. With special reference to graphs I note that in the high school scholar ship examination one question is always set under this herd and though formerly the proportion of candidates who got marks for the question was very small this year it has risen to about 55 per cent. In the case of the school leaving certificate examination the proportion is probably very much greater.

211 Professor Ward of the Canning College an experienced education ist has expressed his surprise as an examiner at the strides made in the schools of the United Provinces in mathematics The teaching of the classi cal languages is apparently impaired by the obsolete methods of the pandits and mailties and their weak discipline. But the most unsatisfactory subject in history. The teacher is generally devoid of real historical truining and as the medium of study is English the lesson is apt to become a mere verbal commentary on the text book. Mr de la Fosse complains that although the I nowledge of history required is simple enough the school boy despite the rultitude of keys which support the theory of propensity to cram appears incapable of cramming historical facts which will give him an elementary groundwork Perhaps he pertinently remarks, the parrot cry against the exercise of the memory has something to do with it. The self appointed expert never seems to be able to steer a middle course or to carry in his mind Geography is another fatal subject but more than one idea at a time its teaching has improved largely it is thought owing to the introduction of excellent text books in place of a syllabus which led to the use of cram Here also it is observed that good teaching must include the inculca tion of facts by heart The standard of drawing previously described as hopelessly bad has risen steadily. Science especially in its practical aspect hopelessly bad has risen steadily has been converted from an easy option into a subject that requires steady Il plication but continues to attract by reason of its intrinsic interest is due to the erection of laboratories and above all to the institution of a practical examination in vitu for the school leaving certificate Objecta form of instruction to which the Indian teacher does not take kindly are still vitiated by formalism and the weariness induced by a per sistent inclination to dwell on the obvious Efforts have not been wanting

to introduce realism. The pupil for instance, draws in colours the animal studied and writes his observations on the opposite side of the page, while occasionally animals are introduced into the class room for study.

212 In reports from other provinces either less is said or the record is less satisfactory The introduction of the direct method in Bengal has been mentioned as a part of the change in curriculum Mr Prothero complains of the influence of the matriculation as antagonistic to the laying of the ground work of a good general education "It leads to subjects which are not com pulsory for that examination being excluded from those courses which should be common to all high school pupils up to at least the age of 14 In this way. owing to the vicious system encouraged in many schools of regulating the education of their pupils solely with a view to ultimate success in the matri culation examination, such subjects as drawing, history other than Indian, and geography (except for those who take it up for the matriculation) have largely fallen into neglect, while science has never been taken at all, except in the depreciated B and C classes A similar result has followed in the two higher classes as well, from the comparative limitation of the subjects, compulsory or optional, prescribed for the matriculation, and because the inducement to take up a subject which does not pay becomes still less at this stage, both to the managers and the pupils of a school"

213 In the Punjab the direct method of teaching English has been successfully tred, and a monograph on the subject, by Mr Crosse, inspector of schools, will be found as appendix XIV—Improvements are reported in the teaching of science and geography and mathematical training is given on right lines. But teaching, here as elsewhere, is prejudiced by its divorce from observation and experience—Mr Wyatt the inspector of Jullundur, siys—

"As the candidate is usually expected to attach dates to events or sice versi, he collects them in pairs miscellaneously, ignoring historical aginficance or perspective, and in a similar way he gets up accounts of 'acts' attributed to various historical per sonages 'Causes' he merely memorises, and an inexperienced inspector sometimes suspects him of an intelligence of which on further probing he proves himself innocent. In this division to the map in teaching history is rarely or wrongly used, and much illuminative local history is overlooked. In one town I asked the pupils of a third middle class to mention important buildings that would not have been there a century ago. It took minutes of apparently hard thinking for a angle bay to suggest a single dealing with the past, which is neither explaned, as it might referred to the present as one might expect, in middle classes. This 'unreality' in the teaching is not, of course, confided to history, which I have merely taken as an illustration. The vice as universal. In the teaching of mathematics pupils are not taught to weigh or measure, to estimate height, distances or areas, or to deal in actual current prices. And I I ask a class how far a ship going in turn five miles due north due east, and due south, will be from its starting point, boys atter blankly who know all about the four sides of a square. In geography schools situated on hill lops make no use of the advantages of their postucno—boys draw maps from the black boards or the wall map of starting the contract of the protein and the starting that the particular bit of apparatus employed. This teaching is mainly of set experience and in the teaching In accious, again, the teaching is mainly of set experience and the protein and the teaching is a starting that the particular bit of apparatus employed. This teaching of scores does not deal with universals, it discourages the pupils from applying principles or observing the experiments of nature for themselves. It is thought necessary, for instance, for pu

214 The director of the Vorth II est Frontier Province has some remarks which lear in a very practical way on faults of method and are of very general application. This is the unsatisfactory distribution of work among the truthers. The class teacher system is almost non existent. It is impossible for a teacher to attempt any correlation between the subjects he teaches or for him to take any real personal interest in his pupils when he takes each class for only an hour or two aday. In the high department specialisation is no doubt necessary and in the middle department special teachers may be required for science drawing and classical inguiges but when these subjects have been eliminated there is no reason why each class should not be assigned to a single teacher indeed if education is not to become mere book learning it ere is every reason why this system should be adopted.

III -School leaving examinations and certificates

215 As long ago as 1832 the Education Commission of that year recom Opinions on nended a school course of a modern and practical character freed from the the matricular domination of a matriculation examination. The Indian Universities Com tion as a mission of 1002 11 dit down that the conduct of a school final or other school suitable test examination should be entirely outside the functions of a university that

universities would benefit if the mitriculation were no longer accepted as a test for service under government and if a school final examination were substituted as quilifying for admission to professional examinations and that it would be advantageous if the school final could be made a complete or at least a partial test of fitness to enter upon a university career. A more recent commission—the Royal Commission on University Education in London—this referred to the question as one explored by the Consultative Committee of the Board of Education and now under consideration by the Board them solves. The commissioners did not feel it within the terms of their reference to make recommendations as to the best means of attaining the ends which a growing body of opinion desires. We are however runs their report directly concerned to see a solution of the problem reached which a growing body of opinion desires.

directly concerned to see a solution of the problem reached which will ensure a proper standard of entry and which as regards finance will relieve the university from the necessity of depending upon the fees of its matriculation examination for the support of its own proper work Until this necessity is removed the establishment of a school examination in the true sense will be difficult In any circumstances the influence of the university will ultimately be paramount in regulating the standard of proficiency in special subjects to be required of students for admission to the degree courses in each faculty but the secondary schools are similarly entitled to arrange their curricula in the interests of all classes of their pupils and the school examinations must be based on these curricula. The central education authority on the other hand is concerned to see that its grants to the schools and to the universities are effectively used and in the ultimate issue it is that authority which must provide for the co ordination of secondary schools and universities and must give the necessary assurance to the universities that the pupils seeking admis sion to their degree courses have reached the required standard of education The commissioners concluded that as a first step in the direction indi cated the university should cease to admit pupils in schools to its own exami nations including that for matriculation though some form of matriculation examination must be retained for those who are unable to approach the university through the normal avenue of the secondary school *

216 The earlier history of the movement is instructive. In 1888 the Previous Convernment of Madras instituted an upper secondary course with modern attempts and technical subjects the cundidates being tested by the commissioner for government examinations. In twenty years only 210 candidates had fully passed the test. A school final course and examination were introduced in Boml ay in 1897. The course effered optionals among which occur natural science political economy acriculture and manual training. The examination was conducted by the university though it did not admit to university courses. It was adopted as it le test for government service of certain grades and to this doubtless owes a limited popularity 1 182 candidates having

^{*}Royal Comm sa on on Un vers ty Education in London Final Report of the Comm sasons a 191 pres 41 and 42

presented themselves for it in 1901/02. It apparently attracted youths of inferior attainment who felt they had reached the tether of their capabilities. in the year mentioned only 26 per cent passed. In 1904 the department assumed the conduct of the examination and remodelled it. It can now be taken as a modern side test or with a classical language according to the optional selected. The University of Allahabad held school final examina tions commencing from 1894. These latterly attracted some 400 candidates a year, since they admitted pupils (equally with the matriculation) to the university courses. Most of the students took science, the other and more practical subjects were but little taken prolably because they promised no assistance in the course for the intermediate and the degree. With the in stitution of the matriculation, this examination cersed. The Punjab Uni versity instituted science and clerical examinations the former as an alter native to matriculation. The numbers that competed were very small. In nally in 1901 the Bengal Government promulgated two modern side courses and examinations—the B course leading to the technical selool (see para graphs 205 356 413 and 146) and the C course leading to clerical and commercial employ. The former was taken by some of the comparatively few who desired a technical education and the curtailment of the sub-over-cir course by a year the latter failed because it appeared to ensure no certain career which could not be equally attained through the matriculation

Defects of matriculations

217 This history shows three distinct stages. The first idea was to produce a modern side course and examination which should serve as entry to immediate employment and not necessarily to the university. The second was to frame a course with similar aims but not confined to modern side characteristics. The third phase is the recognition of defects not merely in the matter but also in the manner of examination resulting in an attempt to substitute records and broad practical tests for a purely written investiga tion of the pupils knowledge carried out by an external authority Provin cial reports speak of the shortcomings of the matriculation. The standard is capricious. Sometimes it results in enormous numbers of failures. The syndicate of the Madras University appointed a committee in 1908 to investigate the causes of this, and their report while attributing the result mainly to defective staffing management and equipment also threw considerable discredit on the examination In some cases the standard appears to be undergoing a lowering process The authorities of the Wilson and Daya ram Jethmal Sind Colleges in Bombay mention undue leniency and the passing of unfit candidates The startling results in the placing of candidates in divisions at the Calcutta matriculation have already been mentioned One of the inspectors says of them -

If the mitriculation examination is a surre test of ability and intell gence than the old entrance examination such an inversion of the natural order of success 1s in explicial to Invite attention to this feature of the matriculation examination for I am painfully considered in the test of the quality of testing in our light schools to deteriorate under such as unbeatily influence. The questions set at the last two examinations in English particularly were such as an average loop of the tird class dates had really intelligently gone through even a fair proportion of the testing and the control of th

Another inspector, in Eastern Bengal remarks -

No astisfactory explanation of this unexpected phenomenon can be furnished unless the matriculation is accepted as being a nucle visit exist that the old enterior examination for it is impossible and absurd to argue that a large proportion of the candidates have suddenly developed higher efficiency than before. That the matriculation is a very easy test is certainly the opinion of the majority of headmanters with whom I have discoved the matter. And except for a better knowledge of English I regret to I have discoved the matter of the candidates for the matriculation any better in great handledge than the boys who were formerly sent up for the entirence examination.

Mr Covernton states that boys who pass high in the matriculation fail in the high school final for Burma which the university has grudgingly and under hard conditions recognised as the equivalent of matriculation. Mr Wright complains of the startling variations in the matriculation results both in the Central Provinces and over the whole area of the Allahabad University Apart from this consideration Mi Prothero says that the influence of the matriculation extends through too many classes of the school that the limited number of subjects prescribed deters schools from offering a sufficient variety of courses and that no provision is made for rird roce or conversational tests It may be added that the external examination takes no adequate cognisance of the school record and does not utilise the experience of the teaching or the inspecting stall. The opinion says Mr Prothero has been steadily gain ing ground that a mere school final examination affords no satisfactory solu tion of the problem. What is really wanted is the institution of a school leaving certificate which will contain a record not only of one single examina tion but of the whole work of a boy during at least the last three years of his It is only by some such agency that the domination of a school final or of a matriculation examination over the work of our high schools can be avoided but unfortunately it presupposes a co operation between teachers and inspectors which is hardly possible so long as the bulk of the secondary schools in Bengal are so mefficiently staffed as they are at present

218 This is not the place to enter into a general discussion of the merits Recent schemes and defects of external examinations or the extent to which their retention is of school The question has recently attracted much attention in England leaving certi-The following is a description of the attempts made in India during the last ficates few years to combat the practical difficulties

In view of the failure of the upper secondary examination in (a) Madras Madras a committee was constituted consisting of the director and four offi school leaving cial and four non official members to draw up a scheme which should serve certificate as an entrance test to public service to technical institutions and to univer sity courses and as evidence of the satisfactory completion of a secondary The committee went further than their instructions and decided that what was required was the award of a school leaving certificate giving complete information as to the character and career of the pupil without any statement of his having attained a fixed standard or passed any examination Any pupil who had gone through the secondary course to the satisfaction of his headmaster could under this scheme receive a certificate the value of which for any particular purpose could be estimated by any person of the

Sir A Bourne thus describes it -

The list of subjects includes all those now studied in schools as well as others when the instruction ought to be provided for and may be enlarged by any that the department may hereafter approve. The subjects are grouped in three davisions known as A B and C. The A subjects English vernicular composition and translation and elementary mathematics will it is assumed not ordinarily be omitted in any school and an annual public examination is held in them. The B subjects geography Indian and an annual public examination is held in them. The B subjects geography Indian control of the provided of the provided provided and an annual public examination is held in them. The B subjects geography Indian and an annual public examination is held in them. history elementary science drawing plays cul training and for girls don estic economy and needlework slould similarly find a place in every school course Experience shows however that ile suljection of pupils to a public examination in these subjects prevents variety and originality of treatment induces cramming and impairs their value as virus, and ong mainty of tremeest moures comming and ampair their value as mental triuming. It is impossible to say moreover what if any fixed quantity of latwidge in them is necessary for entrance on any career. There is therefore no public examination in them. The C subjects are indefinitely numerous. They include all those subjects proficiency in one or more of which is plainly necessary for entering the ail II one subjects proficiency in one or more of which is pituity necessary for entering the university a technical institution or business or is recognized as forming part of a good school education. Among them are tile more specialized parts of elementary mathematics and science algebra geometry physics chemistry and bottomy. English history class cil foreign and vernacular languages commercial subjects shorthand typewriting hook keeping commercial arithmetic practice and geography germelium music needlework dress-making and lace making. Since the order of colleges different of government and others require per mechalized in any of these subjects a width, a liquid. who claims to have to some extent specialized in any of these subjects a public examina ti n is held in them

necessary competence such as an officer of government or the principal of a

It is to be observed that the scheme makes no subject compulsory. The depart ment expects solools to tale up the A and B subjects and a school will not be allowed to omit any of them without good reason but will on the other hand admit such reason In schools for girls for instance it might be desirable to omit Faglish or mathematics It is also intended that each school shall take more than one of the C subjects and it is hoped that schools will increasingly provide specialized instruction so that a figreation of courses resembling it it of the modern and classical sides of it e. English public school may become common. There is ample scope moreover, for the framing of exceptional courses for exceptional schools. The scheme can be applied for instance with no difficulty to European schools, to girls' schools, or to schools in which Faglish is not taken

With a view to correcting the prevalent view of school work as a mere preparation of recaminations and to securing continuity of effort throughout it e-school course the school provides for the entry in the certificate of marks granted in school course the school course of the school course of the public examination. They contain entries of the accepte marks gained in the various subjects in the presidency and in the preticular school and a comparison of the marks of any pupil with these school difference of the school course is to be proceed by the school course the school course

Provision is also made for pupils who obtain certificates of a low standard to return to school for a year or more and to improve their marks in any subject they have taken or to take up new subjects

Effects of the scheme

220 The scheme was introduced in 1911. It proved so ropular that in 1912 the entries for matriculation had fallen from 8 000 or 10 000 to 580 It has been adopted in Hyderabad Travancore Cochin and Mysore, and the certificate is accepted by the Madris University The public examina tions are controlled by a committee constituted precisely as was the committee which drew up the scheme The advantages of the sistem are that it permits of considerable choice of subjects and variety of syllabuses that it checks cramming and the comparative indifference of schools to moral phy i cal and manual training and other subjects that have no definite examination value that it improves organisation and that it prevents frequent transfer from school to school All the inspectors speak favourably of the way in which the system has been taken up As to non-official opinions from educa tionists the Rev H Schaffter of Tinnevelly describes the scheme as a blessing 'The manners and conduct and the progress of the students have greatly improved and there is less difficulty in maintaining discipline. The number on the rolls shows an increase this year. The choice of subjects given to students is an attraction causing the increase in number The report of the Madras Christian College for 1911 contains the following passage -

"The general effect of the changes made in the higher classes is felt throughout the school. Work is being tested without the over-burdening of examinations. Boys are becoming more practically acquainted with their vernaculus. Interest in study is as marked as regularity of attendance and dally preparation. Without what is often spoken of as specialisation courses are being more definitely fifted to suit individual capacity. The thoughts of boys are leng turned away from a pass in the matricality ton examination to a certificate of which they will be proud in after days. And the wholesome recognition of the fact that a university course is not for all is giving to other lines of life the position which they ought to occupy in the minds of school boys. An atmosphere of freedom from a too heavy course of study has pervised the school and the spiral tone has prevailed respect for discriptine has been steadily miniationed and the spiral folicity to the school has been marked?

One pressage in the report however demands attention Principals can now admit to college courses those whose school leaving certificates show they are fit for it 'The immediate result of the clinge was the admission into the first vear college class of nearly twice the number of students that has usually in any vear joined it. This seemed to indicate that admissions had been made with insufficient care and enquiry by the syndicate showed that in the case of some colleges this had been so. Measures were accordingly taken which it is anticipated will ensure better grounded and consequently less numerous admissions in future." The report of the Madras Christian College for 1912 also contains the following.

WI at was said in last year a report about the effect of the school leaving certificate
-the stimulus which it has imported and the distribution of energy in steady application

rather than its concentration to a feverah degree prior to the matriculation examination of the old days—these features remain true of 1912, but in common with many other schools we take the opportunity of voicing the request rising in chorus from school masters throughout the presidency, that the principals of colleges and those who examine these certificates when appointments depend on the result of the scriting, give full weight to the school record and that the public examination result on the last page be not allowed to monopolise their attention. The school record is the result of a much more prolonged and thorough examination of the pupil, and if the school work is done carefully by completen masters and headmasters the estimate should be more reliable than that of the examining board. That such a statement should seem extravigant indicates a regretable state of affairs.

Some may think that the examinational element has been too fully eli-

221 In the course of framing new regulations the University of Allah (b) United Pro abrid abolished the school final examination which (as stated above) it had held times school as an alternative to the entrance, both examinations were absorbed into the ferting critification. In connection with the Nami Tal conference of 1907, a scheme cade examina of study was framed, the examination concluding which is conducted by the tion department of instruction in the United Provinces and accepted as qualifying for employment and by the university as admitting to its courses. It is thus described by Mr. Burrell the first Registrar of the examination—

'The plan of the examination consists of four compulsory subjects and eleven optional subjects, and in order to obtain a certificate candidates must pass in the four compulsory subjects, and one optional subject. The compulsory subjects are English, mathematics the history of India with the outline of the system of administration geography, and a veracular The optional subjects are (1) one of the classical languages—Sanskrit, Arabic, Persian with Arabic, and Latin, (2) commerce, (3) physics and clemistry (4) physiography, (5) a further course in mathematics including mechanics and tingonometry, (6) botany, (7) spriculture, (8) drawing (9) manual training (10) a modern European language and (11) domestic science. The courses are in principle only model courses and schools are at liberty to propose alternative courses of equal difficulty to sut their requirements. But in practice this liberty has not been exercised and the courses drawn up by the board have, except in one instance, been universally velopted

New suportant features of the examination are the following —First, no particular text book is prescribed for English, headmasters being allowed to use with the sanction of the department books selected by themselves. The same is the case for the vernacular But it is the duty of the Text Book Committee to recommend books suitable for study, and a separate list of such books is published annually for the guidance of headmasters in making their selection. Becoundly, number and length of the written pyers are rested by an oral text in English and a modern European language and by practical texts in physics and chemistry, commerce further mathematics and manual training. In the first year there were also oral tests in classical languages and the vernacular, but they were discontinued partly because they were considered less necessary, and partly because it was difficult to make satisfactory arrangements for them. Fourthly, the records of the worl done during the course of preparation by the masters and boys are impected at the school on strike by the cost and head of the cost of the co

Central Examination Board—The conduct of the examination is entrusted to a board of ten members, presided ever by the director and including two representatives of the university, one of the Thomson College Roorkee, one of the Chamber of Commerce two officers of the department and two non-official members appointed by government and the assistant director as secretary. The board meets ordinarily two covers of the contract of the semination results. Its first meeting was held in April 1908 and from that time it has been busily engaged in amending the provisional courses and building up the arrangements of the examination. Its proceedings require the confirmation of government.

The machinery of examination.—The retual arrangements for the examination, which are in the hands of the assistant director who is ex officeo registrar, are somewhat complicated and have had to be built up slowly in the light of experience. In the

first year 1910 the written examination was held in January before the oral and practical tests so that the examiners might took over the written papers first. It was found however that the sarrangement unduly curtailed the period of preparation and would be unworkable when the numbers increased. Next year therefore the oral examination was held between December and March and the written examination postponed till February List year the arrangements may be said to have revelhed their final form. It was decided to hold the oral examination between January and March and the written examination early in April. A head examiner is appointed for each subject and he is helped by assistant examiners. In order to produce uniformity of sindard careful instructions have been drawn up for their guidance. The machinery of the examination is now complete at least in outline and will probably only rejuire adjustment in defaul.

Records of work.—Great importance is attached to the maintenance of records of school work as evidence of steady and continuous preparation. One of the greatest difficulties has been to put this matter on a sound basis. The old tradition is to have two standards a daily routine of Jutcha and an occasional neursion into pucca work for the purposes of display at inspection time, and the results were inaccuracy and solventiness. Again the teachers had a constitutional objection to correct work, and a singulay lack of judgment in assigning marks. The order of the day was to scratch along anxhow during the term and trust to cramming of the worst description just before the examination to pull the boys through. The problem was to break an old tradition and start in new one. A first the schools were left more or less at theirfy to systematise their work on their own lines. But experience showed that they required more direct guidance. Certain rules and forms have therefore been prescribed by the department requiring masters to draw up syllabuses of their work to keep a dury of the work done in class and to maintain a mark book showing the progress of their upulis. They are also required to exact neat and carefully written work from the boys, to correct it junctually and preserves it for inspection.

The initiation of the scheme was attended with much difficulty and opposition. The recognition of the evanimation by the university led to the closing of some matriculation classes and an outer, that a blow was being aimed at higher education. To allay suspicion matriculation classes where over there was a demand were re opened—to the detriment of school work, since provision had to be made for two separate courses. But this ariangement ceased when opposition gase way to embarrissing popularity. Recognition for the examination was springly granted in 1910 eighten schools were recognised and 325 candidates admitted in 1911, the numbers were 39 and 948 in 1912 forty five and 1196. A dilemma was produced in 1900 by the issue of an order dosing the lower ranks of government service to all cave holders of the leaving certificate the choice lay between recognising all schools or inflicting hardship on pupils of the less efficient. The operation of the order was postponed.

(c) Bombay school final examination

222 The school final examination in Bombay is a direct descendant of that instituted in 1889 As already stated its conduct was hinded over to the department in 1904 and certain changes have been made. But it re mains a written examination with oral tests in English and the vernacular differing from the matriculation less in its method of test than in the sub jects of its course the sole passport to government service at that stage of a candidate's career but not recognised by the university as the equivalent of matriculation The changes in the curriculum have already been noticed Two remarks in the report are significant. The director is trying to arrange a scheme of science study with the university which will serve for both matri culation and school final otherwise headmasters will have to make doub's arrangements if they wish to prepare boys for both. This is a warning against troubles that have been felt clsewhere and are always apt to occur with a multiplicity of tests Aguin I think says Mr Prior the school final leaving certificate would be much more valuable if it contained a refer ence to the poys conduct for the last two years and if the examiners had before them a record of his progress in each subject during that period' 1912 677 pupils passed this test against 2 025 who matriculated

(d) Attempts in Burma and the Central Pro

223 The only province situated within the jurisdiction of the Calcuttu University which has attempted to establish a general school final preparing both for employment and for the university is Burma. And the scheme has fared ill. Air Covernton writes

The introduction in 1910 of a high sel ool final examination held by the department for anglo-vernacular high school pupils is an event of very considerable a guild

conce I's entially it represents an effort to live it away from the literary and academic traditions of the matriculation course and to substitute a test more consonant to the needs of ordinary selool education and the requirements of practical life. Candidates are required to pass in four compulsors (Linglish arithmetic vernicular and geography) and two optional subjects. The optionals may be selected from a list including literary scientific commercial and practical subjects oral and practical as well as written tests are require l The new examination in Burma las been severely landicapped in compolition with its old-estal lished rival the matriculation by the terms exacted by the Calcutta University as a condition of its recognition (a ligh self of final candidate for entry to the university laxing to take not only harder but more layers than those required of a mattendate by the requisition of a higher fee from cundidates and by the number layers of some schools and technes to brace the mesleves for the higher standard of test which it imposes Schools and candidates increover lave been reluctant to specialize on one or other of these two examinations and in many cases headmasters lave sent in the same condidates for the two tests in one year. The net result has been so far as subjects are concerned to drag the high school final into the same grooves as the n atriculation. On the other hand since January 1912 the high selool final supersedes matriculation as a passport to government service, and negotiations I are been entered into with the university to procure a modification of the terms of recognition. Confidence nno with it cuniversity to procure a mo liferation of its terms of recognition. Confidence too is slowly growing. In March 1912 104 candidates entered (of whom forty seven passed) from sixteen sel cols as against eighty-one entries with it riv two prises from ton sel cols in March 1910. The percentage of prises compared with that of matricula tirn in which in 1912 134 can lidates jassel (many in closs I) out of 164 entries bears eloquent testimony to the difference of the two tests in respect of standard testimony which is end anced by the fact that pupils who passed high in matricultion fulled in the light shell of final 1 group an electronic standard test. ligh school final I rom an educational standpoint the competition between the two explainations is most undescrible. What is now wanted is the alclition of the matri culation and the creation of a general school lessing test of an elastic character adapt able to the requirements of employers generally yet such as the university could accept as suitable for its own purposes '

224 The Central Provinces has a school final examination. It has not proved a success and is to be reconstructed. So long says Mr. Wright as our curriculum is fettered by immersity requirements there is no loope of the examination that depends on these whatever title is given to it effecting any change or development in education.

225 The position may be summarised. While the inadequacy of a liter Conclusion ary and purely external examination has long been recognised early attempts to establish other kinds of tests were not successful—save in Bombay where matriculation cassed to qualify for government employ. Within the last quanquennum new systems have been framed in Madras and the United Pro-tinces. Both lay stress on school records. The former while it involves examination does not make the grant of a certificate conditional on the attain ment of any standard in the examination. The latter depends partially on written and oral tests Both are recognised by the local university as un equivalent to matriculation but the one is while the other is not the sole qualification for government service of certain grades The one appears to be open to pupils of all schools and has practically superseded the matriculation the other is open only to those of certain recognised schools and is making rapid headway. The only other province that has an effective system of school leaving tests is Bombay where the scheme though somewhat reorgan ised is generally that which has been long in force. It is examinational is not recognised by the university and is regarded as the sole qualification for government employ at that stage The practical difficulties of working an Provinces scheme where the oral precedes the written part of the test. In Burma and the Central Provinces the schemes have been a comparative failure Sate for special examinations such as the B and C finals in Bengal other provinces have not attempted any scheme. The matriculation is for the most part still the goal of the high school course though its defects are realised. The only remedy says the report from Fastern Bengal and Assam is the institution of school final examinations and the abolition of the practice of making the matriculation examination the gateway to the public services. The domination of the latter examination has exercised a most unwholesome effect on the character of the education imparted in high schools and no great improvement in their work can be expected until that domination has been removed

1111 - Wastage in schools

Success and failure in examinations

226 In a notable passage of the last review Mr. Orange observed that a return of 1903 showed that more than 16 000 Indians were employed in the rublic service on pay exceeding Rs 70 a month and that the annual output of graduates had only once exceeded 2000 many of whom entered private cm In 1911 12 the outturn of graduates was 2 742-a large advance in the past nine years the demand has undoubtedly increased. A point for consideration is the inequality of output in different parts of India As a result there is a lack of qualified Indians in some provinces and there is probably—at least in some walks of life—an excess in others Owing how ever to the comparatively restricted production the increased demand and the great rise in the standard of living in no part of India can Indians by readily found to take service on terms which were accepted by men of like qualification a few years ago The most striking feature said Mr Orange about the numbers of graduates at the Indian universities is not the magni tude of their total or any increase in it but the very high proportion of wast age It takes 24 000 candidates at matriculation to secure 11 000 passes it takes 7 000 candidates at the intermediate examination to secure 2 800 passes and it takes 4 750 candidates for the B A degree to secure 1 900 passes 3 disparity between candidates and passes is now less marked. At matricula tion or equivalent tests 28 000 candidates produce over 16 000 passes at the intermediate out of 9 600 candidates over 4 700 are successful at the degree examination over 2 700 pass out of less than 5 000. That is to say whereas formerly out of 100 candidates for matriculation 8 obtained the degree now 91 become BA s or BSc s

Continuance of pupils under instruction

227 Some of the reports suggest that the stundard of matriculation has been lowered. And it must be remembered that the school leaving certificate in Madras does not definitely depend on attaining an examination standard Unless however the degree standard has also been lowered (a supposition which is not put forward in the reports—though it appears to be prophesied in the Bombay report) the figures last quoted would indicate an improvement in the candidates throughout the university career. But there are two other ways of regarding the wastage problem—the percentages of pupils in all different kinds of schools and the percentages of those in different stages of secondary and collegiate education.

(a) from school to sclool

228 As regards the first of these considerations the following comparison between Japan and India is of interest —

L nd of mst utmo	Percentage of purils to total		
	Sapan.	Iodia.	
Universities	01	07	
Higl schools	0.8	6.8	
Middle English sclools	17	49	
Primary (including middle vernacular) schools	925	87 1	
Normal schools	0.4	02	
Special schools	04	0.1	
Technical schools	41	02	

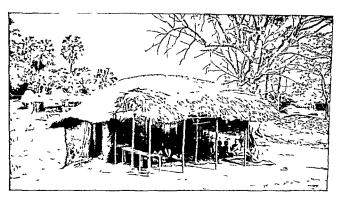
The figures must be regarded with caution—first because the wide extension of elementary education in Japan reduces the percentages in other kinds of institutions second because the middle and high school in India contains a large number of pupils in the primary stages. But these two conditions do not affect the principal point of contrest in Japan only 2 6 per cent of the chool population proceed to a literary course while nearly 5 per cent proceed to technical or specialised courses in India the answering percentages are 124 and 0.5. The conclusions are that the percentage of those in India who study beyond the primary stages is comparatively high and that these seek almost exclusively a literary education and professional employment. Japan with a population of 51.591.361 has 7.5.90 students in its universities and 28.5.902 pupils in its technical schools. Britis India with a population of 15.501.361.264 students in its universities and only 12.064 pupils in its technical schools.

(b) from stage to stage 229 Secondly if we regard stages it is a most remark if he tact that out of every five pupils in India who complete the upper primary stage no less

than four proceed to a secondary school. A recent report has shown that in I uzland one pupil in twents two who leave a public elementary school pro cards to a public secondary school * The comparison is defective be ause in India the figures include tho e who read in primary stages of secondary schools and also lecaule a vast number of pupils never rise above the lower primary stage Vevertheless the figures are impressive and show the ease with which in India the primary pupil transfers himself to higher courses. But when we come to regard the numbers reading in secondary stages the comparisons they offer and the paneity of those who come through to a successful is do the tale unfolded is very different. There are 263 346† pupils in the middle stage 139 151 in the high The full secondary course occupie, some six years 17 occurs occupies some six years 18 occurs occupies which will be seen to the secondary course occupies some six years 180 occurs occur students in the universities that is since the college course is of four years each class averages 0 000 students. The numbers in the lower classes in each stage sometimes (especially in the collegiate stage) exceed those in the higher This is not always the case however and as a rough calculation we may regard the numbers just given as indicating the annual admissions to various In other words about one tenth of those who enter a secondary school go on to college The number of those who matriculated (or passed equivalent tests) in 1911 12 was 16 351, the number of those who graduated was 2 742 Accordingly less than one-fifth of those admitted to secondary courses passed the examination that concludes the school course while about one in every thirty two succeeded in obtaining a degree Even were the examination tests of extreme difficulty so large a wastage could not b so explained. And the figures show that the percentage of those who pass examinations to candidates is on the increase. The inference is inevitable that large numbers of pupils enter the secondary classes especially those of the middle stage who have no intention of persevering to the conclusion of the course or the attainment of a standard in English which will be of practical value to them. The loss of energy entailed upon such pupils and their teachers is considerable. It may be urged against this calculation that it con In earthe school with the college course. This argument would be cogent if the school course led in amy substantial degree to the avenues of his or education than the university. But the majority of those who matriculate enter college-even if the conventional figure of 9 000 such entrants be regarded as correct. As a matter of fact the number of students in the first year class of colleges is probably much greater the number of those who com pleted the second year and appeared in the intermediate of 1912 was 9 600 Thus for those who complete the school course the university offers the natu ral continuation and of those who enter the university not one in three manages to graduate

230 The whole subject is one which demands close consideration In the Conclusion first place it is obvious that large numbers of pupils are entering English schools (often of a very inferior type) whose pecuniary conditions or mental calibre will not carry them on to the conclusion even of the school course Their time is mainly occupied in laarning a foreign language up to a standard which can be of little or no value to them while mental development and the gathering in of information which would be possible for them in a place of vernacular instruction are checled and superseded by a short lived attempt to master a difficult tongue Secondly the avenue of education which is selected is narrow and monotonous. The great majority of pupils crowd into the literary courses with a view to entering professions. The number of those who bifurcate into technical or other specialised studies is small. The result is that there is little or no free play for those whose intellectual characteristics are not fitted for the high school or university course. The institutions which impart this kind of education suffer from overcrowding and the admission of pupils whose slender capacity is bound to react adversely upon others while the rush into examinations necessitates wooden (and lifeless) eystems of testing

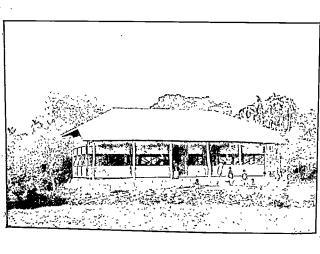
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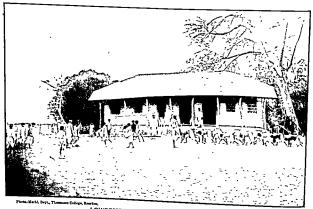


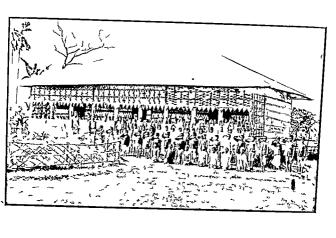
A LOWER PRIMARY SCHOOL, BENGAL

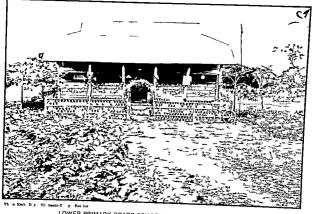


TYPE PLAN, UPPER PRIMARY SCHOOL, BENGAL.

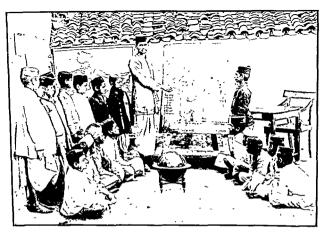








LOWER PRIMARY BOARD SCHOOLS CHITTAGONG DIVISION



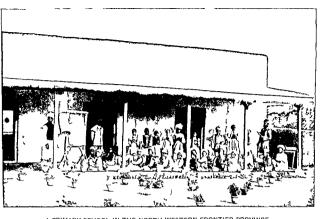


PRIMARY SCHOOLS AT WORK.





Blade March David Water Co. 6 to Doctor



A PRIMARY SCHOOL IN THE NORTH WESTERN FRONTIER PROVINCE



A PRIMARY SCHOOL AT EXERCISE

DAMODHAR NAIK SCHOOL TEYNEMPETT MADRAS

A VERNACULAR SCHOOL IN BURMA

CHAPTER VIII

PRIMARY EDUCATION.

I -General.

231. Primary education, as defined by the Indian Education Commission Definition. of 1882, is the instruction of the masses through the vernacular in such subjects as will best fit them for their position in life. It is mainly carried out in vernacular primary schools. In Bombay and generally in the Central Provinces the same kind of school that educates the boy whose instruction will case with the primary stage educates those also who will proceed to secondary schools. In Burma, too, the primary departments of secondary schools are sometimes held in separate buildings and ranked as primary schools. English is taught in them. There are a few other exceptional cases where English is taught in primary schools, as for instance in Madras where it is an optional subject. In the main, however, the definition holds good, and all these institutions are included in the fourse of this clupter. Where recessary for purposes of calculation, primary sections of secondary schools are also included. In the section on literacy, the figures of gral's schools are taken into consideration. For the rest, the chapter deals with primary schools for boys, Indian and Luropean.

232. The general organisation of schools has already been described and Organisation. shown in diagram form in the preceding chapter Ordinarily speaking, there are two infant classes, followed by two or three standards, these constitute what is called, in some provinces, a lower primary school or the lower primary section Some schools have two higher classes and are generally known as upper primary schools. The addition of yet a further two classes constitutes a venneular middle school. As this kind of echool is really the list link in the chain of vernacular education, it is classed for purposes of description.

and statistics as primary and is dealt with in the pre-cut chapter. Middle vernacular schools are unknown—or rather not so named—in Madras ard Bombay, they are classed as elementary or primary, schools in those proxinces

233 Primary schools are managed either by local bodies or by private Management. agency. In either case, however, the local authority (for the most part the district and local boards) is often entrusted with the control and the finance of this most important branch of education. Here the grant in aid system has admittedly disappointed anticipation. But it is largely retained—for the most part in the Bengals, Madras and Burna, and to some extent in Bombay, the United Provinces, the Punjab and the Certral Provinces, where, however, the board school system prevails. The reasons for this difference are partly financial, partly historical Where the tradition of education existed and schools were numerous, the state or the local authority could not undertake the support of all institutions and contented itself with the grant of a small subsidy to persons who established or maintained schools. Where these conditions did not exist, the local bodies themselves founded schoolsgenerally of a markedly superior type to the privately managed institution secondly, the system of grant-in aid has taken root where the indigenous school abounded or was discovered capable of development. This statement however, must be received with some caution. On the one hand, we have the successful utilisation of the milla school in Sird on the other, many of the so called path shalas of Bengal are not of the indigenous type at all or of any antiquity, but simply venture schools set up by men who wish to derive a com petence from teaching. Accordingly some areas are covered with a network of small aided schools, often ill-found and poorly stalled, others posses board schools in central villages with their own buildings and teachers on assured pay, others again exhibit a mixture of both systems. Burma is, as so often, exceptional There are no district boards in that province Cess schools

however are maintained and considerable use is made of the truly indigen our pangli kyauna. The subject of management is treated in detail in a sparite section.

II --- Progress in the aumquennium

A umerical

234 In the quinquentium 1897—1902 there was an actual decrease in primary schools and pupils. In the quinquentium 1902—1907 there was an increa e of 10721 public schools and of 621-339 pupil in them. This in crease was de cribed b. Mr. Orange as the largest both as regards schools and pupils. With was recorded as having taken place in a similar period. During the period under review the increase in schools was less rapid than in that preceding and amounted to 7.745. But the increase of 891-980 pupils far exceeded previous records.

Just as in the case of "secondary education it is necessary to exclude those studying in primary depurtments of secondary nettitutions so in the case of primary education the full number of pupils must be calculated in the number in primary selools and in primary departments of schools of higher status. The result is shown as follows.—

	Total number	Percentage of	
	10-	1912	The state of
Pup is in primary sel cols	3 630 668	4 222 648	246
P if Is in primary departments of secondary clooks	356 061	4 a 361	ვ ° ა
TOTAL	3 996 29	4 993 009	204 /

236 A feature of the quinquennium is the increase in the average size Average circl of a school. In 1907 the average number of pupils was 36 it is now 41—ricuit in a in increase of 139 per cent. The following figures are significant showing school the number of pupils per school in 1907 and in 1912 the percentage of in crease in the average enrolment and the percentage of increase and decrease in the average enrolment.

Prox nee	Pup	s to s school n	Te co tage of crease	l ercent ge of nerease or de reas n total nu rber of p mary sch ols
Madras	32	39	219	+125
Bombay	54	58	74	+224
Bengal	28	31	107	+70
United Provinces	41	52	182	30
Punjab	45	53	178	+84
Burma	31	34	97	38
Eastern Bengal and Assam	32	40	0 ن2	+11
Central Provinces and Berar	67	75	119	+208
Coorg	41	64	45 4	24
North West Frontier Province	46	54	174	+198
Average	36	41	13 9	+75

It will be observed that the average enrolment is generally less in those provinces where the aided school system prevails and where schools are thickly scattered, also that a small increase or even a decreuse in the number of schools by no means involves an answering stagnation or diminution in pupils

237 The number of pupils reading in boys primary schools has increased A wider of from 3 630 668 to 4 522 648—that is by 591 980 or 24 6 per cent. If to these pupils in be added the pupils reading in primary departments of secondary schools the different increase is from 3 956 729 to 4 998 000 or 25 4 per cent. The details for provinces provinces is regards primary schools are shown below.—

n	polis, his i	Percen age of	
Province	1907	1912	decrease or
Madras	692 409	940 689	+359
Post of	<i>516 71</i> 9	672 301	+301
Bengal	954 027	1 124 804	+180
United Provinces	418 480	480 544	± 14.8
Punj ib	141 559	1,9588	+269
Burma	1o5 884	161 236	+34
Eastern Bengal and Assam	560 711	704 353	+20G
Central Provinces and Berar	177 344	239 711	+352
Coorg	3 601	5 153	+430
North West Frontier Province	9 998	14 129	+423
TOTAL	3 630 669	4 522 648	+216

The record is one of muthed progress. Two provinces require special mention. In the United Provinces there was a set back in primary education in the years 1908—1911. In the last year of the period there was a recovery. Despite exhaustive enquiries the cause is not pet alloger clear Contraction of expenditure in certain years and the visitations of plague were partially responsible. But runs the resolution of the Local Government the prosponsible of But runs the resolution of the Local Government the prosponsible of But runs the resolution of the Local Government for the proposition of expenditure nor in the visitations of epidemic discuss. The period 1905-36 to 1907-68 was one of rapid expansion and the lines on which high expansion is stricted out were not in all cases sound in nor than the district schools in particular under schools in particular under schools in particular under schools.

justiff their existence and when the boards came to scrutinize the results obtained, it was inertable that many of these should be closed. Moreover in many cases the eagerness for expansion had thrust as de financial foresight and when boards came to review their commitments they found themselves frieed with the necessity of neglecting other services in their charge if they attempted to maintain efficiently their new educational enterprises. His floorour has no wish to prejudge an enquiry which has not yet concluded but he finds in the recent history of primary education a strong prima facing corroporation of his belief that unless the enthusiasm for education is balanced by the clearest provision for its financial requirements the result is bound to be ineffective and disappointing. Haste in spending our grants is not necessarily true service to the cause.

The other province whose figures demand comment is Burma where the increase is small. Mr Covernton remarks that reductions in grants and bad on one have weeded out the weakest public schools and he surmises that some of the punils have been relegated to unregistered institutions. It is to be remembered that in Burma the unregistered monastic schools educate considerably more than half the pupils that their figures (which probably do not represent the full number of pupils) are not shown in the table above that the precenage of litericy is higher than in other provinces and that the margin for increa e is consequently smaller

Percentage of bo 1s at school 238 The percentages to those of a school going age who are reading first, in primity schools second in these and the primary classes of secondary schools are shown below —

Prov nee,	Percentage of boys in primary schools to boys of a school go ng age	Percentage of boys in the primary stage to bo s of a school going ago.
Madros	27.1	28 4
Bombay	30 0	30-3
Bengal	2a 5	28 1
United Provinces	12.7	138
Punjab	10-9	14.5
Burma	13 5	191
Eastern Bengal and Assam	203	29 7
Central Provinces and Berar	196	22-3
Cox rg	2~-2	27 3
North West Frontier Province	80	11 7
Average	21 a	238
		_

Bombay Lastern Bengal and As am Madras and bengal show the largest numbers under elementary instruction. In Burma where education is wide prend the number of unrecognised schools marks the true condition of things. In Bombay where secondary schools have no primary classes the difference between the columns is insignificant.

239 A special section will be devoted to management. And it is only necessary to give here the classification of schools and pupils for India

The principal increase has been in loard schools, the reasons for this will be explained later

Sclools and pupils by management 240 The distribution by race and creed is shown in the same manner as Distribution for lows secondary schools

Number of creed

I are or creed.	To al aquibre in primary a hook.	Number of typ is of a set of point age of wire 10 are us r mar school for beys	Percentage of increase a the last five years
I uropeans and d muciled community	1.786	218	+55
In him Cl ristians	114 OC)	10	+257
Brahman*	171 120	12	+161
N n Brihman∗	2 721 103	91	+206
Mul rest relans	921 713	Ĵi	+ 3
Bud li sats	146 770	100	+21
Parsis	4 316	30	99
Otl era	138 171	99	+7G1
Total	4 522 618	85	+ 216

The small number of 1 uropeans reading in primary schools is accounted for by the fact that this community generally frequent secondary schools with primary sections attached. The increase in the number of non Brahmans and Muhammad use is noticeable.

211 It is important to consider the relative number of pupils in the three Distribution in divisions of the primary stage. This is shown for provinces in the supple stages mental table no 105 and is calculated on the numbers both in primary schools and in the primary stages of secondary schools. They are given tables in bright form.

blages.	Total number in ea h stage	P reentage to total
Number of t vs in the upper primary stige. Number of t vs in the I wer primary stage.	185 163	12 5
realing printed backs Number of love in the lawer printers stage	2 891 807	62 1
n t realing printed lake	1 181 131	25 4
TOTAL	4 CCL 101	100 0

Since 1907 the number in the highest stape has increased by 25.2 per cent that in the second stage by 19 per cent and that in the lowest by 35.2 per cent. The large increase among the infants is inevitable where there is a large increase in the total of pupils. But it is satisfactory to find that the increases in the two higher stages taken together have been proportionately center.

1242 The subject of the last paragraph has to be regarded in another Pupils in the light—the length of time for which children remain at school. This has upper primary considerable bearing upon the question as to how far the population of any stage province is touched by education for the numbers actually at school are affected by the duration of school life. A very rough guide to the length of school life in different provinces is shown by the proportion of pupils in the import primary stage to the total in primary stages.

I rosia e	primary a age to tlose i the primary atage i		
	190~	1910	
Ma leas	72	58	
Bon 1 3v	33 3	31 0	
Berg I	6.0	69	
Un tel I rovinces	120	14 1	
Punjil	18 9	197	
Birn 3	10.5	203	
I stern Bergal an l Ass m	~ 2	7.5	
Central I roymers and Berny	14 3	13 9	
Co rg	33 3	200	
North West Fronts r I rovince	21 4	19 0	
AVFRAGE	123	125	
	_		

The question of the duration of school life is so important that it will receive special treatment in section XII The figures here shown bear out (save in the case of Burma) what will be indicated there—that children remain longest at school where the board system prevails and where in consequence the education available is of a higher order.

Expenditure

243 Direct expenditure on primary boys schools is now Rs 179 62 453 Between 1902 and 1907 the increase was by Rs 312 62 43 between 1907 and 1912 it was by Rs 42 91 550 The amounts derived from different sources are as follows.

Idilows —				
	An ount con mb ted in			age to total
	1907	exper	d ture u	
	1001	1912	1907	1912
	Rs	Rs	2007	
Public funds	89 50 433	1 17 91 788	6a 5	65 6
Fees	32 03 786	40 87 951	23 4	228
Other private funds	15 16 684	20 82 -14	111	116
TOTAL	1 36 70 903	1 ~9 62 453	100 0	100 0

Public funds also contribute Rs 1 19 902 a year in scholarships—a sum which is not shown in the figures above

Public funds are made up of the amounts contributed by government and by boards The financing of primary schools and the part played by govern ment (the full contribution made by which is concealed in the figures of board expenditure) are complicated questions which will be dealt with presently Here it will suffice to observe that public funds find nearly two thirds of the expenditure The variations among provinces are large. The fee income in Bengal is double that in any other province Madras is far ahead in income from private sources other than fees while the proportion of expenditure from public funds is far the greatest in the Central Provinces In Bengal public funds contribute rather over nine lakhs against over 163 lakhs of fees in Eastern Bengal and Assam the amount of public funds just exceeds the amount of fees (the one is over 8½ lakhs the other 8½ lakhs) in Madras the former exceeds the latter more than three times in Bombay and the United Provinces some ten times in the North West Frontier Province fifteen times and in the Central Provinces nearly thirty nine times The percentage of public to total expenditure for each province will be found in supplemental table no 112

Average expenditure per school and pupil

244 The average expenditure on a boys primary school is Rs 162 a year virying from Rs 431 in Bombay to Rs 53 in Bengal In 1907 the average expenditure was Rs 133 the cost bas risen during the quinquentum by Rs 64 in Coorg Rs 57 in the Punjab Rs 42 in Bombay Rs 40 in the Central and the North West Frontier Provinces Rs 38 in Madras and the United Provinces Rs 21 and Rs 20 in Eastern Bengal and Assam and Burma and Rs 7 in Bengal The cost of a school under public munagement is Rs 320 of an adde school Rs 161 and of an unaied school Rs 56 Two considerations however modify these figures. In some cases the fees in board schools are credited to the board and should not be shown as an item of expenditure in the case of privately managed schools the teachers sometimes receive per quisites which are not shown in the returns 'The average annual cost of educating a pupil in a boys primary school is Rs 42 varying from Rs 76 in Bombay to Rs 29 in Bengal

Sources of

245 The ratios borns by public funds fees and subscriptions to the total expenditure on primary schools are 65 6 22 8 and 11 6 per cent respectively. The figures for fees and subscriptions cannot be regarded as thoroughly accurate. The average fee annually paid by a pupil is Re 0.14 6—that is one shilling and two pence halfpenny. Details regarding fee income will be given later. The total direct expenditure from public funds on primary schools for boys and grist to the total direct. This does not include the cost of inspection scholarships buildings etc. for primary schools. In reality therefore the expenditure on all institutions it is 49 0 per cent nor does this foldal direct expenditure on all institutions its 49 0 per cent nor does the

include the cost of primary education in the lower stages of secondary and in special schools. Indirect charges cannot be accurately divided

246 The quinquennum therefore has seen a large expansion in the Statistical number of pupils—proportionately larger than that in the number of schools summary and itself larger than any previous recorded increase. The direct expenditure on primary education has increased by nearly 31 per cent the expenditure from public funds by nearly 32 per cent. The average cost of a school has in creased by over 21 per cent.

247 Nor has the advance been only numerical There have been activity Progress in in the building of schools, and improvement in the qualifications and training efficiency of teachers. Courses have been modified. The subject of elementary instruction has begun to evoke peculiar interest as shown in the debates in the Imperial Legislative Council. The question of further progress was fully discussed at the Alluhabad Conference of 1811. The conclusions there arrived the thing of the most part been adopted and are stated (in final form) in paragraph 11 of the resolution. The immediate needs are general surveys in each province with a view to securing an equable and sufficient distribution of schools the enhancement of the teachers pay the formation (as in the North West-Frontier Province) of graded services provision by pension or fund for old age and the expansion of facilities for training. Tinally the Government of India have pronounced in faciour of an extension of the

principle of free elementary education

248 To facilitate these ends imperial grants have been made to the pro Imperial vinces. In 1900, a grant of 35 40 lakhs recurring was distributed. Its effect grants has been visible during the quinquennum in enhanced direct public expenditure which rose between 1904 and 1912 by Rs. 43 67 320. This sum exceeds the grant but by no means represents the full increase of expenditure during the same period on primary education since the cost of buildings of enlarged inspectorates and of improved training facilities are not included in the figure. Between 1905 and 1911 no imperial grants were made for this purpose. In 1911 capital grants of Rs. 9 95 lakhs and Rs. 8 12 lakhs were given respectively for primary schools and for training schools for primary teachers. In 1912 a recurring grant was made of 35 lakhs (including five lakhs for girls education). After the close of the quinquennum 84 lakhs capital and 20 lakhs recurring were disbursed. The distribution of the grants of 1911 1912 and 1913 to provinces was as follows.

Рс пе	Cap al	Recurr ng
	Rs	R_s
Madras	19 20 000	9 90 000
Bombay	14 49 000	7 87 000
Bengal (including Bibar and Assam)	29 50 000	18 21 000
United Provinces	17 50 000	000 د 8
Punjab	8 00 000	3 57 000
Burma	6 90 000	2 96 000
Central Provinces and Berar	6 55 000	3 31 000
Coorg		10 000
North West Front er Province		55 000
Agencies	2 14 000	46 000
Total.	1 04 21 000	55 46 000

Thus the total disbursed during the past two years has amounted to Rs 55 46 000 (or £369 700) annually recurring and Rs 1 04 21 000 (or £664 700) capital

III -School life

249 The primary school in its most typical form is a village school at *The pupils* which the boys of the village and surrounding hamlets attend. There are very few hostels for primary schools the pupils all live near by They are the children of the cultivators and tradesmen of the place and as many of those of the labourers and others as their circumstances and inclinations permit

2.3 The school is divided into classes generally four or six according Classes and to its grade. The building (if the school his one of its own) generally con their instructions of one room the overflow classes sitting in the verandah. There is somet on simple furniture for the teacher. There are a black board some maps pictures (including those of the king Emperor and Queen Empress) and per large a small collection of objects—seeds cotton silk specimens of soil and other matters of interest to the agriculturist. Several of the reports speak of the money which has been wasted in miking benches for primary schools. These have no backs and made without consideration for the size of the pupils leave their legs drugling in the ur. The children are happier sitting

on mats on the ground the money is better spent upon equipment 254 Many schools have only one teacher Hence he has to set some of the classes down to sums or writing perhaps under the eyes of a monitorwhile he takes a class or possibly two classes together in reading or some other oral subject. The time table is arranged to this end. The infants form letters with seeds on the floor repeat rhymes and stories and sing the multi plication tables The higher classes use books in the local vernacular How these books are produced is explained in chapter XXII of this volume. They contain stories simple biographies a little poetry lessons on agricultural objects crops and cattle perhaps a few simple history lessons-in fact most of what the child has to learn They generally contain pictures These readers are inexpensive and often well printed and got up There are seep tions-the Central Provinces administration is dissatisfied with its books and contemplates another set Geography is taught from the map of the village which the boys also draw frequently on their slates then if there are higher classes from maps of the province India and the world The school may pos ess a globe (an item in the training course is often the manufacture of a globe by the teacher) for demonstrating the shape of the earth the pheno mena of day and night and the general outlines of land and water There are also manuscripts for teaching handwriting copies of the village land records and simple specimens of shop keepers account—all of which the chil dren in the higher classes are expected to rend and understand. In Birma new readers are being compiled and a competent Burmese artist is making the illustrations

2.5 Discipline is easy to maintain in the village school. The text books Discipline conditions lessons of moral instruction. Drill is regularly practised and the children play country games. A system of drill or rather of exercises called deshi kasrat first organised in the Central Provinces has now been introduced into several other provinces. This based on the indigenous exercises practised by wreetlers but is so graduated as to leaf from simple to harder feats.

256 The only general school examination permitted before that which Examinations closes the high school course is intended to conclude the primary standard Nor is this a formal or external examination. It is conducted by the inspect ing officer in whose jurisdiction the school is situated. He is presumably more or less cognisant of the conditions of the school and perhaps even of the general capacity of the pupils The test is informal conducted in situ and largely oral It is theoretically held whenever the primary stage is considered to close-a matter of difference in different provinces. As the majority of pupils will not go further than the lover primary it would appear reasonable to hold the examination at the end of that stage But the boy who proceeds through the upper primary classes wants something to show for it and the middle vernacular stage ends a distinct type of school career In practice therefore some confusion arises and certificates are awarded or tests held at different stages In Madras there is no examination at all but an elementary school leaving certificate is awarded to those who have completed the fourth or a higher standard. The abolition of the primary examination in that presidency is said to have been unpopular. But since the new system was ntroduced 74 000 leaving certificates have been assued. The primary stage in Bombay nominally ends at what in most provinces is the conclusion of the middle course hence the vernacular final examination is a comparatively advanced test the minimum age for passing which was previously 17 but has leen lowered to 15 years The Bengal report states that no examinations for the award of certificates are held during the primary stage of instruction but

only class examinations for promotion. The general table however, shows the results of prescribed lower primary, upper primary and middle school examinations in the first of which over 50 000 pupils passed in 1912, presum ably no certificates are given on the result. These must not be confused with the so called primary examination of Bengal which concludes the middle course is held under private agency and is described in chapter VII. In Listern Bengal school leaving certificates are granted at the end of the lower and the upper primary stage on the results of a test held by the teachers and supervised as far as possible by the inspecting officer. As however, the examinations are held in thousands of schools about the same time there can be but little supervision the standard varies greatly and the teachers are not always very judicious in granting leaving certificates. The certificates are of no value save for admission to a school of higher grade. In Assam the inspecting officers hold the tests both for upper and lower primary and give the certificates which in turn admit to the scholarship examination United Provinces has no lower primary examination, there is an upper pri mary test and there is also a vernicular final examination at the conclusion of the middle course. The primary test in the Punjab is not shown as a prescribed examination, it is held by head teachers subject to the control of the inspecting staff the only public examination for vernacular pupils being that which ends the middle stage. Burma retains three examinations at the lower primary upper primary and middle stages. In the Central Provinces an in situ test is held by inspecting officers (or in town by supervising head musters) at the close of the lower primary stage. It is unnecessary to make any comparison of the results of these tests in different years. They are gen erally of a purely informal character and are of value mainly for promotion to secondary schools to which a considerable number proceed from among those who conclude the full primary course

Scholarships

257 Scholarshins are given to enable deserving pupils to continue their studies in the upper primary stage and to go on from that to the secondary school The value of these scholarships ranges from Rs 2 to Rs 4 a month Special provision generally exists for backward classes and tracts award is made according to merit but in the Bengals great weight is attached to circumstances of poverty and conduct of the candidate The examination is conducted in situ in Madris Bombiy Burma and the Central Provinces In other provinces examinations especially for the award of scholarships are held at centres subsequently to the ordinary in situ tests. In the United Provinces any boy who has passed the upper primary test may present himself at the scholarship examination. In the Punjab and the Bengals there is selection. In the two latter provinces the scholarships are distributed by areas and each school may send one candidate subject to a maximum of candi dates not exceeding three times the number of scholarships available in any single area The whole or nearly the whole of the expenditure on scholarships held in primary schools is met from provincial funds in Madras Burma, the Central Provinces and the North West Frontier Province of the expenditure incurred in Bombay the two Bengals and the United Provinces devolves upon boards In Coorg where the cost is inconsiderable the local funds defray the whole amount. The sum expended on scholarships held in primary schools that is lower primary scholarships is Rs 131974 as against Rs 92192 in 1907. This does not include the upper primary scholarships tenable in schools of higher status

IV -Management

Public and private management 2.8 The subject of management has been briefly treated in the first section. In 1907 one fourth of the primary schools were under public management the rest under private management. The same rough proportion still holds good though the advance in public institutions has been more rapid than in others. The figures are—

Details are shown in supplemental table no 100. The percentage of publicly managed schools to the total is in Coorg 93 7 in the Central Provinces 93 3,

in the North West Frontier Province 82 7 in Bombay 81 4 in the Punjab 70 in the United Provinces 538 in Eastern Bengal and Assam 23 3 in Madras 19 0 in Bengal 12, in Burma 0 3

259 The number of government primary schools is infinitesimal-505 Government They are generally established in backward tracts where district boards do sclools not exist or as model schools attached to training institutions. The small increase that has taken place in their number during the period is mainly due to the establishment of 97 such schools in Bengal Board (including muni cipal) schools now number 26 115 against 21 625 in 1907 The main increases are of over 1 000 board schools in Madras nearly 1 400 in Bombay and 1 500 in Eastern Bengal and Assam Bengal has only 112 board schools Burma Schools managed by native States included in the report number 2889 aided schools 65 650 (of which nearly 39 000 are in Bengal and Eastern Bengal and Assam and over 15 000 in Madras) and unaided schools 15 533 (of which over 8 000 are in Bengal over 4 000 in Madras and over 2 000 in Lastern Bengal and Assam)
Thus Bengal and Burma depend wholly on the privitely managed school Enstern Bengal did so almost exclusively till a board school system was initiated during the quinquennium (Assam already had the board school system) Madras has a considerable number of board schools but over four fifths of its primary institutions are still of the pri vately managed type In other provinces the number of board schools is greater than that of aided and unaided schools

260 During the last fifteen years the percentage of board schools to the Board sel ools total has been growing steadily and their popularity rapidly. Apart from a d their the number of public schools which now forms 26 7 per cent of all primary popularity institutions the number of their pupils is significant—60 boys on the vierage reading in each board school against 36 in each vided school and 26 in each unrided school and 26 in each unrided school and pupils remain longer under instruction in board than in privately managed schools. Nor is this popularity to be wondered at The average annual cost of a publicly managed school is Rs. 320 that of an aided school Rs. 116 that of an unaided school Rs. 56. Not only is the education obtained in a public school better but the fee is less than half that charged in a privately managed institution. And while the fee in the former is under going reduction in the latter it is rising. The average rates are as follows.—

	1907		1912			
	Rs	٨	P	Re	٠	P
Average annual fee in a public pr ary selool	0	~	4	0	6	9
Average annual fee in an a ded i rimary school	1	1	3	ı	3	1
Average annual fee in in unaided primary solool	1	2	8	1	v	3

The report from the United Provinces notices a considerable increase among pupils in board schools as against a decline in privately managed schools and infers that the former are easily the best instruments for spreading and establishing an efficient system of elementary education that aided schools for the most part fail while unaided schools are too few to have In Eastern Bengal where the system of board schools much significance was commenced on the formation of the new province the report says people are coming forward in many districts with offers of land and of contil butions far in excess of the number of schools which the boards can annually undertake and the schools themselves are gaining in popularity as the advantages of improved education are being realised. This is evident from the fact that while the average strength of an aided school is now 38 in Dacca 37 in Rushahi and 43 in Chittagong that of a board school is 53 in the first 46 in the second and 64 in the third Indeed there is already a demand for increased accommodation in these schools and for the enlargement of their The Allahabad conference of 1911 expressed itself in favour of an increase of board schools as ordinarily better than aided schools Where board schools are financially impossible it considered aided schools should be increased in number but not private venture schools

261 Mr Orange pointed out that the present treatment of aided sel ools Prinately a management in the sense required by it e de-patch of 1834 managed is a fiction. Most of these schools are not under "adequate local manage schools."

ment, 'nor do they receive endowments and subscriptions, with the exception of occasional presents from the parents. In Madras indeed 22 per cent of the schools under private management are maintained by missions and in the United Provinces, as will presently be shown some effort seems to have been made towards local co-operation. But ordinarily the grant in aid system has come to be applied, not as a subsidy to private funds but to schools where fees and grant form the only sources of income and the teacher is himself the manager The figures alone are sufficient to show the inferior condition of these institutions The aided school generally springs out of the unaided Mr Nathan stated that the paucity of unaided schools in all provinces sive Madras and Bengal appeared to show that there was left no large outer circle of indigenous institutions suitable for inclusion in the public school system The falling off in unaided schools continued up to 1907, over 3 000 disappearing in the quinquennium ending with that year. But it is remarkable that in the period under review they have again increased from 14,288 to 15 533 The increase has taken place mainly in Bengal where over 2 000 new schools of this type are recorded while in Madras there has been a falling off of nearly 1 000 such schools The Bengal report observes that these figures seem to show that the demand for primary education is so great that it insists on being satisfied even though public aid be not forthcoming. They certainly prove that the indigenous school is not the only source of supply for the public system and that in Bengal at least (notwithstanding the close distribution of institutions) the venture school is still able to establish itself

Powers of the boards 262 Whether the system is one of board or of aided schools or a mixture of both the immediate control is largely in the bands of the boards. Above the boards government evereives control through rules framed under the Local Self Government Acts and through the inspecting agency of the departments of public instruction. The boards work under these rules. The executive authority is ordinarily an education committee of the board of which the deputy inspector of schools is usually a member and (naturally) a very important adviser. In some provinces the district boards have delegated some of their functions to local or tatul boards, whose powers are co-extensive with a sub-division of a district. A board school is the property of the board, the teachers are board servants, their pay is regulated by rule, their appointment transfer and dismissal are controlled subject to certain departmental checks by the board in some cases their service is pensionable. An aided school receives a subsidy from the board under broad rules laid down by govern ment sometimes applied through local rules framed under each board. An account of the grant rules will be given presently

School com

263 In some provinces, committees have been formed for each board school and attempts have been made to form them for aided schools also Their success has not been conspicuous. The potentialities of such committees are obvious but they have not ordinarily fulfilled expectation. In the Central Provinces such committees are a long standing institution and do useful work. The part of the board school teacher being guite independent of fee collections, the utilisation of the fee income as well as a certain amount or supervision over the teacher's performance of his duties have been entrusted to these committees this has stimulated their interest in school affairs. The report from the United Provinces says.

The practice of organising village committees which commenced during the revenus quinquentum has been extended und in some districts ther have been formed for all village schools. The objects anised at in constituting them are not only to arou e local interest in education by focusing it in a permanent body but also to secure an organ of feed quantized and the with which the district board can deal. It is the hope of the result of the constant of the control of the control of the properties of the control of th

In Eastern Bengal and Assam managing committees are attached to all primary bourd schools but are reported to have been so far either inactive or mischierous. They seldom meet says one inspector or evince any interest in their schools. If they do happen to concern themselves at all with the schools it is more than not often to create difficulties in the administration by dragging the teachers into village quarrels.

264 The local boards Acts generally prescribe that these bodies shall Financial make provision for the diffusion of primary education within their areas so arrangements fur as the funds at their disposal will allow. Rule or practice has attempted to lay down a certain minimum of expenditure in the case of each local body The Madras report states that 15 per cent of the resources of boards and municipalities is generally taken as the proper proportion for expenditure on In Bombay the Act prescribes that the amount of the boards revenue to be set aside for educational purposes shall be not less than one third subject to certain reservations. In the Bengals municipal boards were expected to spend 3 2 of their income on primary education and until this was done they could not expend money on secondary schools times a municipality will spend more but oftener less than the required per centage In Bengal the order was withdrawn in 1910 The effect of this withdrawal says the last administration report remains to be seen but it may be said that as a rule the members of municipalities take little interest in the education of the masses and are apt to divert their funds to the support of schools with which they are more directly concerned. In Eastern Bengal and Assam a scheme was devised during the quinquennium under which each board was expected to spend annually on primary education the amount it expended in 1904 plus the amounts of the imperial or provincial grants for that purpose which it received in 1905 and ensuing years if the full expenditure was not incurred the amount of grant distributed to the board in the forthcoming year was proportionately reduced The previous rule in Assam demanded the expenditure of 20 per cent of the board's income on education In the Central Provinces the annual expenditure of the board on education may not exceed the aggregate of the sums represented by the education cess the government grant fee recents private subscriptions and the savings of previous years. In the North West Frontier Province a rule whereby boards were required to devote 25 per cent of their annual income to education proved unsatisfactory at the end of the quinquennium a fixed amount was prescribed for this object calculated at 25 per cent of the average income of the last five years to be enhanced only on an appreciable increase of re venue Rules are not laid down for other provinces But ordinarily some means are taken to ensure a proper expenditure on education Sometimes the board's budget is forwarded to the director of public instruction who sends his remarks to the commissioner

265 The income of district and local boards throughout India is Local Junda. Rs. 5 13 23 730 * The expenditure on primary education is Rs 91 46 944 or and Govern 17 8 per cent. But a considerable proportion is borne by provincial revenues ment subsidies handed over to the boards. Board funds are proverbally inclustic. They are unable to meet the strain laid on them by a policy of educational expansion. Government has to finance them—parity by grants for general purposes parity by special educational grants such as those made when imperial funds are distributed to Local Governments for this purpose. How much of the local fund devoted to education is thus in reality provincial cannot be accurately ascertained. But the following passage from the Bengal report is interesting.

Government also axis primary sel cols through the agency of district boards. In the last very of the quinquenium under review government gave over Ris 559°25 to district bo risk for the spread of primary education which I is been shown in the sist sixes as expend it re from district fund. On the other hand the proport on which the contributions I'v district bo risk boxes as 189132 to the total expenditure from public funds were 65 per cent. Extleren years afterwards in 1906-0 it was 28 and in 1911 2 it was best 25 per cent. Extleren years afterwards in 1906-0 it was 28 and in 1911 2 it was less that the object of the second of the second

In ludes figures for 1910-11 in the case of Bomhav as the report for 1911 1 was not received from that pre-dency at the time of the preparation of this review.

preportions in which the district loards and the government lear the expenditure on primary schools have been reversed since the last quinquennial review, and that the district board funds intended for the support of primary schools are growing inadequate for the jumpose"

As regards the distribution of provincial funds among boards the method diopted in Lastern Bongal and Assan has already been described. The following passage from the Punjab report is of interest on this subject —

"An important step forward was taken in 1910 11 by the introduction of a system of properticining the grants nade to district the bords for the extension of primary relief and properticining the grants nade to district the order for the extension of primary relief to the distributed on rough and ready method. It is may naw being hinded over the brods according to an estimate of their probable requirements but without an aguarantee that 1 is much so in the same scale would continue. The system now in force may be briefly explained. Government undertakes to defray two-thirds of the salary of every qualified teacher in a veraicular school plus all contributions made by the boards to teachers' provident funds and half the cost of school repairs. The condition attached what is that a teacher for whe me achieve practice and the receiver of a minimum salary of its 15 if a head teacher, and Rs. 12 if an assistant. In addition special expenditure on tuildings. As the small amount needed for school contingences can be useffrom the free levered, it is not cost to the located for minimum school is approximately one third of the pay of the teacher of teachers employed and less in brekward districts. Should larger submidse be sanctioned from unpering final without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content on the recursor from internal funds without a conveyanding expansion of the content of the recursor for the recursor of the content of the

Municipal schools 296 A word must be added about schools maintained or aided by municipalities. These are included in the returns along with district and local board schools, but a distinction is reade between the funds contributed by these two kinds of bodies. The income of municipalities throughout India is Rs 7,49.88 941*, the amount expended on schools and colleges is Rs 30,88,283 or 4.1 per cent. The amount of literacy in cities for exceeds that in rural areas. But the condition of privately managed schools in municipal areas is often very inferior, the teachers are ill trained (frequently too old to be trained) and accommodation is a difficult problem where unsuitable rooms have to be hired at a high price

Schools in Bombay and Calcutta 267 The inspector of the Central Division writes of Bombay city -

"As regards Bombas, the prominent feature of the quanqueanum was the adjust ment of certain charges between the government and the Bombay municipality, wherehy the Bombay corporation was reherred of all expenses on account of the city of Bombay police and is place thereof it undertook certain medical, educational and other expenses, till then devolving upon government By virtue of this arrangement it e-cuitor unanagement of primary education now rests with the corporation which is wholly responsible for it in the city. From the year 1993 a general 19th standard examination is held at different centers in which all municipal schools and all saded schools with a few exceptions join."

Mr Prior remarks that this change has made little difference, the corporation has always paid its educational servants liberally and treated them considerately though it appears to remain lethargic about the housing of its schools. Mr Prothero gives a somewhat dismal account of the state of affairs in Calcutta. In 1911 12 the Calcutta corporation spent Rs 34 683 on education but of this Rs 7694 went on secondary schools, Rs 11,766 on special schools Rs 2923 on objects of indirect expenditure and only Rs 12,315 on primary schools for grils and boys. "During the quinquennium under review the attention of the chairman of the corporation was drawn to the fact that the municipality was spending over Rs 4 000 of the Rs 20 000 given animally in capitation grants to primary schools on schools which the department would not and because they taught English or were guilty of other breaches of departmental rules. It was also brought to his notice that exemptions from rates amounting to another Rs 20 000 a very were injudiciously given, and

Including figures for 1910-11 in the case of the Bombay Pres dency from which later figures were not received when the review was under preparation

that in some cases high schools enjoy this privilege illegally. A committee met in 1910 when it was decided among other things that the grants to schools should in future be distributed in consultation with the department. In 1909-10 it had been proposed to open at the expense of the corporation thirty schools for Indian boys and girls with industrial annexes. Nothing has come of this scheme and generally, adds the report the amount spent for primary education still falls far short of what might reasonably be expected from the municipality of the first city in India."

V -Systems of grant in aid

268 In the board school the teacher is a board servant. His pay is fixed Difference be—generally by qualification. length of service and success. Other expenses tween board are also met by the board sometimes also from fees. In Assam however, and added system still prevails in board schools approximating to that generally fol schools lowed in ided schools. The pay of a teacher is partly fixed—Rs 8 a month if he is certificated, Rs 5 if he is uncertificated, but with some concession in view of ordinary examinations passed—and partly dependent on a capitation grant graded according to the stages in which the publis are reading

269 Privately managed schools still form the commonest type in India Systems of and and the method whereby they are aided must be described. It is not necessary to enter into this subject with the muniteness displayed in the fifth quinquen mail review. Full treatment was then required owing to the recent abolition of the results grant system and the reconstruction in every province of order rules which that abolition entailed. The systems then evolved stand almost unchanged to day—bewildering as Mr Orange described them in their manifold variety. Only their sahent features are indicated here. A synopsis of the rules is to be found in appendix XVI. The grant is sometimes paid from provincivil, sometimes from board funds. In Bombay Burma and the Central Provinces it is paid by government. In Bengal and Lastern Bengal and Assam it is paid by the board. In Madras, the United Provinces and the Punjabř it is paid sometimes by the one sometimes by the other in Madras the payment is now almost entirely direct from provincial funds. The authority which supplies the funds has the principal voice in deciding their distribution and the rules whereby subsidy is earned. But the rules framed under the Local Self Government Acts and the inspecting officer serve to introduce a certain uniformity into the operations of the different boards in each province.

270 As in secondary, so in primary schools the methods of assessing annual grant are based on different principles which however frequently overlap. The amount of private resources the qualifications of the teachers the extent to which the prescribed curriculum is followed attendance the numbers in different classes and general efficiency—all these in varying combinations and with different values are determining factors. The systems may be ranged in order according to the extent to which they permit of fluidity in assessment.

The simplest system is that of Madous, which gives Bs 36 a year for each tercher in employment and eight annas a year for each popul an attendance. Even here the important of the manner of the manne

In certain parts of the Central Provinces and especially in Berar small local schools are a so aided by the district and municipal councils In the Punjah now entirely from local funds

VI -Teachers

273 In 1902 there were 106,000 teachers in primary schools—that is, one Number of teacher for every 26 pupils. There are no certain figures for 1907, but, at teachers the same rate there would have been about 140 000 teachers. In 1912 there were 171,359 teachers in primary schools—that is one teacher for every 29 pupils.

274 Of these teachers, 42554, or one fourth have received training In Qualifications board schools something less than half are trained, in aided schools less than one swith, in unaided schools less than one twelfth (These figures are for boys' and girls schools, for masters and mistresses) As regards qualifications in different provinces, Sir A Bourne says of Madras —

"The qualifications of the teachers show a considerable advance during the quin quentum. The number of those without ruy qualifications fluctuated somewhat, but was the same in the first and fourth years. The number of those with professional certificates are now of two kinds. They are either probationary certificates provided in the result of a written examination at the end of the training school course or final certificates paralled in terchiers who have artisfied a board as to their professional shill at the end of a probation ordinarily of from one and a half to three years. The grant of certificates of approved service has leen discontinued for many years so that it is number of teachers holding them is now monosiderable. The department reagainse also a class of teachers of proved ability, though untrained and not formally certificated. Tachers of both these classes appear in the tables as without professional certificates. The professional certificates are of two grades secondary and elementary but the demand for terchers of the secondary grade for secondary schools leaves very few of them for elementary schools and these we nostly employed as bedmisters in the model schools of training matrixtuots and in memoral boards.

The circle reports in Bombay (save that from Kathiawar) give good accounts of the increase in those who are trained or have at least passed some qualifying examination, and this is generally attributed to the more liberal scale of pay leachers in British districts are more numerous better quali fied and better paid than ever before The face value of a first year training certificate is Rs 12 initial pay, that of a second year certificate is Rs 15, the maximum pay for which the holder of a third year certificate is eligible is Rs 25 As already stated, these cannot ordinarily be given. Mr Prior says, 'I do not myself see that it will ever be necessary to make full provision up to the maxima offered in the vernacular masters codes, as if all could look forward to regular increments whether their work were good, bad or indiffer ent, every incentive to steady conscientious work would be removed' Bengals, where pay is low and the training schools are indifferent, the condi-tion of affairs is worse than elsewhere i hings are slowly improving, but one fears that the training given by instructors who themselves draw only Rs 18 cannot be of great value—a case of the blind leading the blind, while the proportion of teachers who possess no educational qualifications whatever is appalling The total number of teachers' says Mr Prothero, 'employed in primary schools for Indian boys and girls at the end of 1911 12 was 43,776 Of these 5,017 or 11 4 per cent are returned as trained, whilst 9,707 or 22 1 per cent are returned as having no special qualifications. The remainder 66 5 of the total are returned as possessing 'other qualifications' The 'other qualifications' are practically confined to the certificates of the former school, examinations (middle English, middle vernacular, upper and lower primary) In 1911 12, a nttle less than 29 000 employed and returned as possessing other qualifications' had passed the lower primary examination only, and seeing that, under this head are included not only all the school examinations referred to above but also the Sanskrit title and madrassa central examinations and 'other examinations' the conclusion that practically all the 9 707 teachers who are returned as possessing no special qualifications, have not read up to the lower primary standard seems inevitable. This is not a bright picture, but it is brighter than that of five years ago Trained teach ers have increased by 2816 those who possess no qualifications have fallen by 2617 The proportion of those who have only passed the lower primary examination is 52 instead of 60 per cent. It is observed that the main pro blem to be solved is how to increase the primary school teachers' pay suffi

ciently to attract a better class of teachers who will have their hearts in the work and to prevent the leakage from the guru training schools Bengal districts of Eastern Bengal and Assam things are no better and the percentage of trained teachers is actually slightly lower than in Bengal itself (11 per cent against 114) But the inclusion of Assam substantially in creases the percentage Great improvement is reported from the United Pro vinces not only are trained teachers being supplied in greater numbers but the type of man who presents himself for training is better qualified than was originally contemplated and possessors of vernicular final certificates are obtainable even for aided schools The Punjab leads the way in the matter of qualifications with 42 per cent of its teachers trained. The North II est Frontier Province is close behind with 40 per cent But even in the Punjab we are told the increase in the number of trained teachers has not kept pace with the increase of schools Burma is ill supplied with trained teachers perhaps the utilisation of monastic schools acts as a hindrance. In the Central Provinces somewhat less than one third of the teachers are trained but steps are being tal en which it is hoped will work a solid improvement

275 The average pay of a primary school teacher throughout India can not be calculated with accuracy. But (still taking the figures for boys and girls schools together) the total direct cost of primary education divided by the number of teachers works out to a little less than Rs 10 a month figure in a board school is about Rs 14 a month in an aided school about Rs 5 in an unaided school a little over Rs 41 In order to rectify the figures less collected in board schools have been deducted (in those provinces where the teacher is not allowed to keep them) in the figures given here and in para The result cannot of course be taken as accurately indicating the average pay something must be deducted for contingencies on the other hand the private teacher often receives gifts of grain and perhaps a free into consideration it may be said that the monthly emoluments of primary teachers do not exceed the amounts shown above the sum which must be deducted for contingencies being largest in the case of a board school and practically nil in that of an unaided school The pay of a board school but teacher is ordinarily composed of a regular salary paid by the board where board schools are new and aided schools are many the system of pay ment in the former so far approximates to the latter that the teacher is allowed to retain rees This is the case in elementary schools of Madras and Eastern Bengal In Assam too fees may be retained up to a certain amount but as primary education is there free this is of little moment. In the Central Provinces the fees are utilised by the school committee In other kinds of schools the teacher's emolument depends on the fees he can collect the grant he can earn (see paragraph 270) and such presents and privileges as the villagers provide It is the existence of this last unreturned source of income that explains the otherwise incredibly low earnings of the unaided teacher

276 The reports indicate that pay—at least in board schools—has gene rally risen. There has been a tendency to adopt a minimum rat in Vadiras this minimum is Rs. 8 but in elementary schools fees are retained and a capitation grant is given averaging Rs. 2 in Bombay Rs. 9 has been fixed as the minimum for assistants save in Sind where it is Rs. 10 Rs. 15 is the maximum Rs. 12 and Rs. 11 respectively are the minima for trained and untrained leadmasters. Certificates of training also lear certain face values which however cannot ordinarily be given. To effect these improvements a grant of nearly three lakbs recurring was made during the period. The pay of a trained headmaster in a local board school of Bombay appears to arrange over Rs. 18 in a municipal school over Rs. 26. The Bengal report gives some estimates of the pay of primary teachers in the case of schools under private municipant it. Auries from Rs. 5.2 to Rs. 7.5 but is ninder Rs. 6 in six divisions. Here where private manigement is the rule payment in kind (not shown in returns) is probably more pre-ulent than elsewhere. One of the inspectors asserts that a considerable portion of the gurus moome is derived from it is source. In the United Promises as in Madras the minimum has been fixed it Rs. 8—which remarks Mr. de la Fosse cannot be called an extra vigually high salary but is far more than a large number of teachers were

 Pa_{J}

receiving in 1907. In the Punjab the minimum initial pay is Rs 15 in the case of a headmister and Rs 12 in that of an assistant. Compared with these rites the incomes earned in Burma are high—in government vernacular schools the pay ringes from Rs 20 to Rs 80 and in aided schools (which form the great majority) the fee income in Lower Burma is not uncommonly Rs 20 or Rs 30 and sometimes ries to Rs 75 though in Upper Burma i hirdly ever exceeds Rs 15. In the North Hest Frontier Procurse 7 notable step his been taken in the formation for certificated board teachers of an elementary teachers service containing four grades on Rs 14 16 18 and 20. A teacher is entitled to promotion (provided there is a vacancy) after five jears approved service in one grade and a limited number of personal allow ances of Rs 5 have been instituted for teachers of long approved service. Men of long and successful service who are now disqualified from admission to the normal school are awarded special certificates and thus gain entrance to the service.

277 Besides his actual pay it is possible to hold out other inducements Postal work to the teacher The village school is the outpost of civilisation in remote places and the schoolmaster is respected as the man of learning. He sometimes combines the office of branch postmaster with that of teacher and thus increases his slender pay The reports do not show how far this pract ce extends generally but several of them contain mention of it In Madra, tle work is entrusted to government and local fund schoolmasters of whom 521 are thus employed on monthly pay varying from Rs 2 to Rs 12 in addition of course to their pay as teachers. The system works well but it is observed that the percentage thus managed to the total of extra departmental branch offices was only 35 in 1912 as against 43 in the previous quinquennium. In Bengal the number of schools in which a teacher is in charge of postal work has fallen from 602 to 532 While it is admitted that the additional duties tend to a certain interruption of school work it is also observed that a little judicious arrangement can minimise the inconvenience and one of the inspec I consider the expansion of the postal system as necessary for the education of the masses as the expansion in the number of schools the former makes as much for their education as the latter though indirectly and I would therefore advocate the extension of the school post office system even though the combination of schools and post offices may not from the postal or educational point of view be as efficient as a separate institution for each The Punjab report speaks of allowances of Rs 2 to Rs 8 per mensem Eastern Bengal districts there are 332 branch post offices attached to schools in Assum the system appears to be almost non existent Throughout a long period of school inspection the present writer has found but one instance where postal work seriously interfered with teaching. The case was a pecuhar one where the village though remote was a large centre of local trade shop keepers formed the bulk of the population and the postal work was pecu livrly heavy Elsewhere he has found that the two duties can be satis factorily discharged together and that the school which is also a branch post office is generally among the best conducted. The teacher is stimulated to effort by the desire to retain the extra emolument coupled with light work It seems unfortunate that at least in some provinces the extent of the prac tice has been diminished

278 In some provinces an additional and deserved attraction is held out Education teachers in the shape of the exemption of their children from the payment of of teachers' fees. The Benadl code permits the son of a teacher in a government school children whose salary does not exceed Rs 50 a month to read free in the school in which his father is employed and a second son may read at half rate. The same privilege is extended to government pensioners of the education department whose pension does not exceed Rs 20 a month and to the orphans of officers who died in the service of the department or of pensioners. In the United Provinces teachers in government service drawing less than Rs 50 a month private on the first private and added schools may allow the same concession. In the Punit the techers in may recognised school whose salary does not exceed Rs 30 a month may educate their children free in vernicular schools and vernacular departments of secondary schools. In the Central Provinces the soms of teachers of schools

under public management and likewise of inspecting officers and of deceased or pensioned techers may read free in publicly managed schools — In Eastern Bengal and Assam the same privilege is extended as in Bengal

Provision for old age

279 Perhaps no method of enhancing his prospects would prove so acceptable to the primary teacher as some provision for his livelihood in old age Teachers of board schools have this privilege to a considerable extent. In Bombay their service is pensionable. The same is the case in Berar, and it is now proposed to make pensionable the service of all primary teachers throughout the Central Provinces who draw over Rs 10 a month. In Mad ras board teachers are required to contribute to the provident funds estab lished by the boards, and it is noteworthy that such a teacher may continue so to subscribe even if his school becomes an nided school, provided his fixed pay is over Rs 10 a month Board and municipal teachers of the United Provinces who draw Rs 10 or over are required to contribute to provident funds, and board teachers in the Punjab of the same minimum pay are similarly ad mitted while many municipalities in that province have started funds. In Burma municipal school teachers are required to subscribe when the munici pality maintains a provident fund These concessions have not been made in the Bengals or in Assam So much for teachers employed by local bodies But the same is not the case with those in privately managed schools There are perhaps few measures which would so surely improve the staff and tone of these institutions is the institution of provident funds. Some of the present proposals regarding provident funds in private schools of primary and of higher status have been mentioned in paragraph 43

Comparison of training and pay in pro vinces

280 The remarks which have been made regarding qualifications and pay in the preceding paragraphs are now brought together and summarised. The percentage of trained teachers to the total in different provinces is shown below as also a very rough calculation of the average emolument based on the cost of primary education minus fees in board schools which are credited to the beard.

Province	I ercentage of tra ned teachers to the total	Average emolowent trachers per annum		
Vadras	36 0	1043		
Bombay	32 0	274.2		
Bengal	116	77.6		
United Provinces	31 4	1083		
Punjab	42 0	155 ə		
Burma	18 1	942		
Fastern Bengal and Assam	15 9	80 6		
Central Provinces and Berar	27 9	161 9		
North West Frontier Province	402	171 7		
Average	248	117 0		

The data of past years are insufficient to permit of any general comparison of qualifications further than what has already been indicated

The accuracy of the calculation of pay is impaired by the considerations already explained Roughly however, the fact that the annual cost of a boys primary school has increased by Rs 29 on the average throughout India during the quinquennum shows that the pay of teachers must have substantially risen. In institutions under public management the increase has amounted to in average of Rs 51 a year. But the table sufficiently indicates the poverty and the inefficiency of schools over large tracts of the country. In the provinces where all or most of the schools are left to private management the proportion of trained teachers and the pay offered are deplorably low. In both respects Bengal displays the poorest figures. The existence of a certain number of borid schools renders the condition of Eastern Bengal slightly—but only slightly—better. Burna wholly dependent on privately managed schools is next upon the list Midras with its mixed system is furly successful in training list teachers but offers low pay—a fact partly explained by the cheep rates which obtain in that presidency.

VII —Courses

281 The primary curriculum comprises vernacular reading writing and The subjects arithmetic generally including the reading of manuscripts the writing of taught letters and a certain amount of mental calculation which is much appre ciated Physical exercises are also compulsory save in Burma Object lessons are almost everywhere given drawing generally and other forms of manual instruction seldom Lessons on nature study (centred round the field the crops and the cattle) the study of the village map the records of the patwars or village accountant some form of simple mensuration and the method of keeping and checking household or shop accounts are generally included in the curriculum partly as an intellectual training partly with a vocational object. Some very simple instruction in hygiene and science is frequently included in the general reading book or in the object lessons Simple geography is almost always compulsory stories from history usually but not invariably form a compulsory or an optional subject Second lan guages are prescribed only in Madras the Punjab and Burma. In Madras schools English which is very largely used in that presidency may be taught in the Punjab Persian is occasionally included in the course for rural schools and monastic schools in Burma take Pali. Such is the main outline of study It is not a matter of great importance whether a subject is taught separately or as part of the reading course Sometimes more noteworthy distinctions are introduced by the modification of the ordinary course to suit indigenous schools such as maktabs or pongy: kyaungs Here secular instruction is more or less confined to the 3 R's with perhaps physical training and a few other simple subjects but the curriculum does not ordinarily permit of such aux uries as geography and history Another source of variation is the occasional distinction between rural and urban curricula. In some provinces such as Bombay there are special rural schools and a village school need not necessarily be of the rural type. Their organisation and the difficulties which attend them are alluded to under another subject (see paragraph 304) In the Central Provinces the village school offers a double curriculum -a simple course for all and further instruction in such subjects as geography and arithmetic for those who are not half timers but return to school after the mid day recess And both in the Central Provinces and elsewhere there is generally some difference between the subject matter of certain parts of the instruction in village and in town schools—those subjects peculiarly suitable for agriculturists being omitted in the latter institutions and replaced by more advanced teaching in other branches. This difference can best be illustrated by the reproduction of a monograph on the subject written by Rai Sahib Lala Sundar Das Suri inspector of schools in the Multan division of

the Punjab It figures in volume II as appendix XVIII

282 Rather than detail the subjects in each particular province it is pro-Olanges in the posed to show the general trend which has recently influenced Local Govern quinquennium ments in modifying the primary courses Briefly it may be said that the

ments in modifying the primary courses. Briefly it may be said that the education imparted unia at instilling a howledge of the 3 R.s.' at stimulating thought and observation and at fitting the pupil for life both by the opening of his methed; and by the equivation of some practical ability in matters which will be of naterial use to him. The curricula may be said to be more or less uniformly fixed with this goal in sight. The changes made are not so much in subject as in subject matter in the nature of books prescribed and in the methods which the matter is exhorted to pursue. The traditional ways of rote teaching are to be abolished new methods of rational teaching are to be introduced. The stumiling block is the infibility of the teacher and one province differs from another mainly in the degree to which they risk failure in incompetent hands. Mr. Orunge when pointing out this fact took as examples Bomby satisfied livit its established scheme Bengal admitting failure in an ambitious curriculum, and Madria recently entered upon a new attempt.

283 The results of the Madras scheme are thus described by Sir A (a) in Madras Bourne —

Strictly speaking it is seleme makes no subject compulsory but the following subjects are recommended as desirable for all schools. The vernacular space and number work general knowledge driwing recitation with appropriate ragims 1.6 children now merely memorised the science readers instead of the old reading books, reading about objects was substituted for study of the objects them selves and the fruitly of observation was not developed, undue prominence was assigned to science, which is not a suitable subject through which to introduce a child to a knowledge of his mother tongue, and the readers produced were not good.

Neither of the Bengals was satisfied with the 1901 curriculum

286 In Bengal the operations of revision commenced with a series of com mittees, of which the first was called after the publication of the Government of India resolution of March 1904 This committee condemned the curri culum of 1901, and recommended that the lower primary school should offer a simple course suitable for agriculturists, the daily period of instruction not necessarily exceeding three hours. The findings of this committee were referred to a second committee which sat in 1905 and made some what different proposals-a half time system resembling that of the Central Provinces masmuch as those who read the shorter course would attend school only once a day and learn the '3 Rs' and simple facts relating to agriculture and village life, but differing from it as regards the subjects relegated to the whole time course, namely, the training of the senses, drawing, drill and manual exercises. A third committee was then appointed to draw up the curriculum for rural schools-the only class of school affected by these pro posals This committee could not regard as sound the lines on which they were instructed to work. In the first place, the training of the senses appeared peculiarly essential for the children of agriculturists-a fact real used in the Central Provinces curriculum, a syllabus which confined itself to the '3 Rs' would not make intelligent cultivators or train the pupils to be 'observers, thinkers and experimenters in however humble a manner' In the second place, they held that the defects of courses and text books applied as much to urban as to rural schools, since the same principles hold in both cases The syllabus produced was accordingly intended to embody these principles in both cases and insisted on observation as a compulsory element. It was for adoption only in the elementary striges—the two infant classes and the first and second standards. In the former are taught accurate observation and expression, colour, form number, reading and writing, nursery rhymes, action songs, games and free physical exercises. In the standards, the compulsory are reading, writing, spelling, arithmetic, drawing and modelling, nature observation lessons, hygiene, and (in the second standard) poetry and geo graphy, 10, the observation of the chief physical features of the actual sur roundings The optional subjects are elementary drill, hand and eye train ing, including drawing, and further arithmetic and observation work. Teach ers manuals and literary readers were produced to carry out this curriculum It was published in 1907 and followed at the lower primary scholarship examination of 1911 The upper primary and middle curriculum (standards III to VI) was published in 1909 and its study was to commence in 1911 Apart from English, which is to be trught largely by the conversational method, the course consists of vernacular leading (the text book mainly com prising biographies, moral tales and sketches of natural history relating to Indian fauna), arithmetic, based on the comprehension of problems, science, hygiene, history, geography, drawing, geometrical drawing and experimental geometry, mensuration, drill and manual work. No difference is made between urban and rural schools and the only difference between the vernacular school and the primary and middle stages of an English school is that the time devoted to English in the latter is spread over other common subjects in the former and utilised for mensuration the study of which is confined to verna cular schools A difference is made between boys and girls schools, domestic by general needlework being included in the course for the latter, while the geometrical subjects and measuration are omitted. The science teaching is confined to natural phenomena and plant and animal life. The instructions regarding the first are as follows -

"Continually greater stress should be laid on the keeping of a calendar in which all observed natural phenomena should be recorded. Now that the children are supposed to have levined to write, they may be asked to bring written record of their individual observations. All such observations should be recorded, and possibly the name of the individual observer, in order to endow the calendar with particular suferest

No effort should be spared to give at a permanent character, and it should be shown to, and matualled by, aspecting officers. Special attention should be given to meteorological conditions, and a school observatory might gradually be begun. The points of the compass must be discovered by observations of the sun. Tech succeeding class must do thus the state of the sun of t

A method of observation is also to be pursued in geography and hygiene. The effects of this change have still to be seen

(d) in Eastern Bengal and Assam 287 In Lastern Bengal and Assam a committee after prolonged deliberations framed a course largely dependent on object lessons correlated with reading arithmetic and drawing lessons. The number of books required for the pupils was to be reduced to a minimum and manula were written for the teachers. The scheme was published two years before its introduction in order to allow time for changes in the truining schools the preparation and study of manuals, etc. The most recent administration report of Bengal describes it thus—

"In Rastern Bengal a new currentum for primary schools cume anto force on the lat January 1912. It was drawn up after much discussion 19 x committee of chical and non official gentlemen. The course of study 1s designed to teach the pupuls to think for themselves to train their powers of observation and to impurit practical knowledge that will be of use to them in their every day life. It will not lead the village boy to think that the pursuits of his falter are deregorized and to be avoided, but will train him to follow his hereditary calling with greater intelligence and thus to improve his material and moral condition. The subjects will be more interesting, more familiar to the children and better adapted to rouse their intelligence. A distinction is made in this exhedical such as the condition of the subject will be more interesting, more familiar to the children and better adapted to rouse their intelligence. A distinction is made in this exhedic garden with a reaction schools. Sitess is laid on practical with interesting the control of the control of the subject of classes have been diminished, while at the same time the lower primary course has been made as far as possible, self contained for those pupils whose circumstances will not identify the distribution to end of the fall course."

Of the prospects of this scheme the report says It is impossible to say how fur the new curriculum is bleely to accomplish its object, as it came into force only on the 1st of January 1912, but it is to be feared that as with the curriculum which it replaces the want of qualified teachers will prove a stime bling block. There can however be no doubt that it is a great advance upon the old curriculum and that if competent teachers were available, it would be more successful

(e) in the United Pro vinces 288 In the United Provinces there has been no change — The curriculum—says Mr—de la Fosse—is practically identical in rural and urban
schools the only difference being that drawing and object lessons are made
compulsory at an earlier stage in urban schools. The majority of the boys
attending both kinds of schools belong to the same class, riz—the literary
castes and require the same kind of instruction—Moreover—the staple of
cducation in our elementary schools consists of the three R is and these are as
necessary to the village boy as to the town boy, for it is or should be the
object of all to be able to read write and reacon—Similarly simple drill and
physical excreses are suitable for all classes of scholars—It is possible to

adapt object lessons to the different types of scholars, but they hardly count as a means of differentiation — The following remarks are of interest —

"Suggestions have been made from time to time by Jersons interested in the education of the masses but not themselves directly concerned with it, for making the courses of study more useful and thereby rendering primary instruction more attractive The question was first ruse I in the Legislitive Council by a non official member, whether it would not be well to introduce into the curriculum subjects more closely related to the every day life of the people and ifter some discussion there it was referred to the committee on rural education, mentione! above There are two schools of thoughtoutside the department—wide as the peles is under in regard to what elementary schools should teach one set of opinion would utilize the schools for the dissemination of useful information, on such suffects a agriculture, sanitation, in laria, plique, hydrophobia so like bite, rent and revenue Jun, co-operative bunking the silk industry, and even the state of the yarm market, the other would confine instruction structurely to the 'three R's,' not even admitting driving or clay modelling, observation lessons or geography Amidst the bewildering multitule of counsellors the department has kept on its course undisturbed, helding fist by the guiding principle that a school is first and last a training ground of faculty and that nothing which cannot be made to minister to that purpose has any claim to idmission into its courses of instruction That in refusing to turn aside it has satisfied neither party goes without saying and that not a few hard things have been still alout it was to be expected, but the enthusiasts for useful know ledge are apt to forget that just as you cannot pour a quart of liquid into a part pot, there is a limit to the amount and nature of what can be stuffed into a child a head. On the other hand the 'three R's' are not in themselves a sufficient training for the intelli the other hand the three it's alone in measurement a sometime that the gener. The powers of observation and reasoning need to be cultivated, and no harm will be done by using things of every day life for observation lessons and by hind and eye by means of simple drawing and modelling. A little 'long degrephy' too will help to quicken a child's interest in its surroundings. It is alleged that the country folk object to their children spending time at school on studying anything but the 'three R's', but their real objection is not to their learning other things, but to the poor results of the literary instruction given If by awakening the intelligence generally the child's progress in its studies were schelerated and its memory made more retentive, there would be less indifference to education on the part of the people "

Some change, however, is contemplated. The question 'whether a directly rural and even agricultural bias could be given to elementary ducation with a view to rendering it alike more attractive and more useful to the cultivating classes was taken up by government in 1909 and a special and representative committee was appointed to investigate the matter, to undertake the preparation of a new series of reulers and draw up a syllabus of object lessons for use in primary schools. The committee has met several times, passed many resolutions done a good deal of work through its sub-committees, and has submutted to government a syllabus of object lessons suitable for introduction into primary schools. It has also proposed certain modifications in the curriculum. But its work is still unfinished and none of its recommendations has yet seen the light.

289 The Punjab offers a plun curriculum which includes object lessons (f) in the aid of the fifth standard) hygiene but excludes lustory and (till recently) Punjab drawing and munuri training Mi Godley says —

"At the clase of the period under review a simplified course of study suitable for sail villag; acknoled was Irpeard on the lines of the rarial school curriculum. The general adoption of this course will dispense with the necessity of retaining a separate thiss of 'town's chools as d stunct from the anglo-vernacular departments and brunche of secondary schools. The weakest features of the teaching in village schools have been, as before the modern innovations, book keeping land records part teal measuration and ol ject lessons especially the list named. The Delhi inspector stys. 'A few schools have small gardens containing plants included in the sylficiary statistical and schools have small gardens containing plants included in the sylficiary statistical resolutions and living simulated the same states of the same states of the same states of the same states of the same transfer and the same states of the same transfer and the same transfer and the same single states and states and the same states of the same single source of the same transfer and provided in the same undersence to practice in speech that marked the teaching four years ago.' Measuration is sometimes well taught where an innerant gardancer is employed. The Rawaljundi inspector discerns an improvement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impression seems to be that provement in the teaching generally but the common impress

gress is held back by the incompetence of a large number of teachers, although there are, of course, bright exceptions "

(g) ın Burma

290 The Burma curriculum was published in 1903 04 and has undergone only minor modifications—It has to offer adaptations for monistic schools and is peculiar in leaving physical instruction an optional subject—Mr. Covern ton says—

"In its present form it comprises, as compulsory subjects, Burmese for other verna cular), arithmetic, object lessons, geography and certain kindergarten occupitions Monastic managers who, on 'conscientious grounds' object to the two last are per mitted to dispense with Lindergirten and to tike Pili in lieu of either object lessons or Schools which take this curriculum are classed as 'A' schools, and are required by the code (though the requirement has not been severely pressed in practice) to take an optional subject, e.g., drill, drawing, minual training Schools, however, which cannot cope with this curriculum may be enrolled and nided as 'B' schools, for which no detailed courses are prescribed by the department, managers being required only to teach the '3 R's' to the satisfaction of the deputy inspector. It was hoped that the provision for 'B' schools would attract a considerable number of unregistered monastic schools The total number of 'B' schools on the register is 576 of which 362 only are monastic. As the inspector of schools, Irrawaddy, writes, 'l'onggis, for whom it was chiefly intended, do not care to be classed as managers of inferior public institutions' At the same time if they cannot grapple with the 'A' curriculum they should not expect to receive the 'A' grints or status

(h) in the Central Protinces. 201 The characteristics of the Central Provinces curriculum are the simplified hilf time system, the stress hild (in rural schools) on nature study, instruction in the village mip, mental arithmetic problems and other utilitarian subjects, and the universil terching of deshi lasrat, a system of indigenous exercises, which, first organised in this pirt of India has now spread to other provinces. Mr Wright says —

"The character of the schools is on the whole very good. The curriculum is not altogether astisfactory, but is under revision. The worst feature of the past has been the poor quality of the text books both in subject matter and language. The provision of good books has been taken up and will be carried through as speedly as the arduous nature of the task allows. Apart from parely literary work much attention is given to practical knowledge of pattern papers and other matters of village economy. School gardens are almost university, and are useful in some places to the adult villager as well as the schoolboy, as forming an experimental or demonstrative plot for the growth of new vegetables etc."

General 292 In con

202 In conclusion, Sir A Bournes warning (quoted above) is to be remembered regarding the danger that the '3 R s' mry be neglected The injunction is no doubt a wise one that the pace must not be forced The teaching staffs (especially among the privately managed schools of the Ben gals) are not competent to swallow new methods wholesale, and the effect of the curricula adopted in those provinces (or as finally arranged for the new presidency of Bengal and the province of Bihar and Orissa) will be watched with interest. The very shortcomings of the staff—to be deplored in most respects—may have one advantage—that there is not likely to be any excessive reaction against the due utilisation of the child's facile memory, which the ultraprogressive educationist is sometimes inclined to ignore in favour of exclusively rational methods thus assuming an amount of reaconing power which the child does not possess and which must be developed para passu with the attainment of elementary howledge.

Manual training

remarks

the attainment of elementary knowledge

293 It will have been observed that manual truining is sometimes prescribed as a subject in primary schools. The training is necessarily of an elementary arture—drawing paper cutting ind day modelling. In two provinces however, there has been a further development. In the Punjab the elementary industrial school can hardly be distinguished from a primary school save in the addition of industrial subjects. Mr. Godley remarks that now that manual training is coming to be regarded as a part of general education the separation of schools which include it into a distinct class particularly intended for artisans children has accased to have much significance and may lead to confusion. In the report of the committee alluded to in para graph 40 industrial schools of the Punjab are described as giving instruction in the ordinary literary subjects taught in primary or middle schools and also in carpentry or metal work or both. The course in carpentry begins with elementary carring and carries the pupil up to the construction of simple articles.

of furniture The teaching in metal worl is generally confined to the making of simple tools etc About the end of the quinquennium the Local Govern ment proposed the appointment of a special instructor in manual training who would organise the classes on modern methods and train up teachers for the schools The Government of Madras has also proposed the appointment of two instructors in this subject. The Government of Burma too has as a result of the conference of 1909 sanctioned the establishment of manual train ing classes in selected vernicular schools the revision of grants for this subject and the training of the vernacular teachers at the Government Sloyd school at Moulmein At certain angle vernacular schools too and at the gov ernment normal schools there are Slovd classes

I III -Free and compulsory education

294 During the quinquennium elementary education was made compul Mr Gokhale's sory in the State of Baroda and the question was keenly debated of intro Bill ducing compulsion into British India On the 19th March 1910 a resolution was moved in the Imperial Legislative Council in favour of free and compul sory elementary education The motion was withdrawn On the 16th March 1911 the Honble Mr Gokhale introduced into the same Council a private Bill to make better provision for the extension of elementary education The measure was a cautious one and made permissive the introduction of compulsion First a certain percentage of boys or girls was to be already at school in a municipal or board area before the provisions of the Act could be applied to that area the percentage was to be fixed by rules made by the Governor General in Council Second the municipality or board might when this condition was fulfilled apply the Act to the whole or any specified part of the area within the local limits of its authority but it was not to be incumbent on the authority to apply it. Third even when the condition of school attendance was fulfilled and the local authority desirous of applying the Act the consent of the Local Government was necessary before this could be done. Wherever the provisions of the Act were in force it should be in cumbent on the parent of every boy not under six and not over ten years of age residing within that area to cause him to attend a recognised school for elementary education on a number of days and for periods to be prescribed by the department of public instruction. Ample provisions were added for exemption in individual cases, and the Local Government might further exempt particular classes or communities from the operation of the Act boy required to attend school should be charged any fee if his parent's income did not exceed Rs 10 a month and other remissions of fees were allowed Wherever the Act had been made applicable to boys it might also be made applicable to gurls sel ool attendance committees were to be appointed whose duty it should be to lodge complaint after warning against parents of defaulting boys before a magistrate Tle magistrate was to enquire and direct the parent to make the boy attend If this direction were disobeyed the parent was liable to a fine not exceeding Rs 2 for the first offence and Rs 10 for repeated non compliance The municipality or district board having jurisdiction over an area where the Act applied was to provide such school accommodation as the department considered necessary and to this end it might with the sanction of the Local Government levy a special educa tion rate But the Local Government was also to share in the cost the pro portion to be met ly local and provincial funds being prescribed in rules to be made by the Governor General in Council Such were the main sections of the Bill others dealt with child employment

295 The Council concurred in the introduction of the Bill and opinions were invited A year later Mr Gokhale move I that the Bill be referred to a He explained that thirty three per cent of the children of select committee a school going age should be the proportion actually at school before any local body should be permitted to take up the question of compulsion and that the proportions in which local bodies and government should share the expense of the scheme should be one third and two thirds respectively he also proposed that where education was compulsory it should likewise be free The debate extended over the 18th and 19th of March 1912 Mr Gokhale based

his position on the fact that while government was committed to a policy of mass education progress under a voluntary system was hopelessly slow regarded the opinions expressed on the Bill as favourable and the opposition to it as largely from official quarters. He did not consider the cost in superable Reckoning the male population as 125 millions and taking 10 per cent of it he found that of the 121 millions to be educated four millions were already at school and the cost of educating the remunder at Rs 5 per head would be at most 41 crores of rupees of which government would have to find three crores and another crore for girls. He suggested the reform might be carried out in ten years and that the cost might be found by raising the customs duty from 5 to 7 per cent which would bring in approximately 4 crores (nearly £2 700 000) The Bill was officially opposed on the grounds that there had been no popular demand for the measure that the Local Gov ernments were opposed to it and that the weight though not the majority of non official opinion was also hostile while the idea of additional local taxation was strongly opposed. It was pointed out that the analogies of Japan the Philippines and Ceylon on which reliance had been placed were misleading also that the compulsory system in Baroda was regarded in the reports of the State, as still in the experimental stage that the incidence of the fines there charged for non attendance was double the incidence of pri mary school fees in British India per head of the population and that the percentage of literacy had remained far lower than in the neighbouring British districts where there was no compulsion The estimate of the cost was too low-about half what it should be and would provide only inefficient schools and a short course while nothing was allowed for improvement and for other branches of education There was still room for the voluntary system the extension of which would be checked by compulsion in more advanced areas The average annual increase of pupils during the last four years had been nearly a quarter of a million. The expense would be prohibitive and unfair in its incidence. The attendance committees would be in effectual and the creation of any machinery would lead to general hostility. The Bill was de-cribed as premature and calculated to throw back the cause of elementary education. The further progress of the Bill was finally negative. tived by 38 votes to 13

296 The justification of a measure of compulsion may be said to depend upon the benefit which that compulsion will confer upon the masses commodity must be sufficiently good to be worth having the social conditions must be such as to create a genume demand

Elementary education in India still awaits many improvements which only increased expenditure, more thorough supervision and easier methods of communication can effect. The acquisition of learning is not a hereditary tradition with the bulk of the popu lation nor (among an almost wholly agricultural and rural community) does it pre-ent a necessary condition to comfort and even prosperity, still less (as in industrial countries) to the bare maintenance of existence. Moreover, the caste system and the almost complete illiterary of women act as serious obstacles During his budget speech in the House of Commons on July the 30th 1912 Mr Montagu paid a tribute to the aims of Mr Gokhale but was unable to share his view that primary education as it exists at present in India is sufficiently valuable to force it on the whole school going population as soon as possible He pointed out that the greatest expansion of education can be secured not by making it free or compulsory at once but by the im Compulsion really can only be provement and multiplication of schools worked where education is popular and where therefore the need of putting compulsion into force would not show itself to the very large bulk of the population There is not much use in applying it to resentful districts In conclusion he quoted the opinion of the Maharani of Rajpipla—a pro gressive ruler who has done much to advance education in his State - Make primary education as free as you choose add as many further inducements as you can but do not make it compulsory In the case of the most advanced classes it is absolutely unnecessary and would serve only to create irritation In the case of the poor backward classes it would inflict harm where good was meant would subject them to great harassment would be positively cruel and unjust and would be deeply though silently resented as such"

pop I

297 As regards free education it has already been observed that the Free annual fee in a boys primary school is $14\frac{1}{2}$ annua. The average paid education in different provinces is shown below —

Prov ace		Average fee annually paid by a
Madras Bombay Bengal United Provinces Punjab Burma Lastern Bengal and Assam Central Provinces and Berar Coorg North West Froutier Province	<u>-</u>	Avera, o ree and auty sea d by a R A P P 0 11 11 0 10 3 1 7 10 0 4 8 0 9 2 1 3 1 0 1 7 1 1 1 1 1 0 4 8
	Average	0 14 6

In 1902 the average fee was just over one rupee $\,$ In 1907 it sank to Re $\,$ 0 14 1. The comparative lowness of the rate in provinces where the board school system prevails is noticeable. During the quinquennum the fee in public schools has fallen from Re $\,$ 0 7.4 to Re $\,$ 0 6 9, in aided schools it has risen from Re $\,$ 1 1 3 to Re $\,$ 1 3 1, and in unaided schools from Re $\,$ 1 2 8 to Re $\,$ 15 8.

Ordinarily the fee rate is graduated according to the class in which the pupil is enrolled. In the Punjb it rises from one ama a month in the lowest to five annas in the highest class. The rates however are rendered so fluid by the exemption rules that the only useful figure to consider is that given in the preceding table—namely the average fee collection per pupil

298 In the North West Trontier Province primary education is free whether imparted in the primary school or in the lower stages of a secondary school This change was introduced at the close of the quinquennium Assum the payment of fees in lower primary schools is voluntary rural parts of the Punjab elementary education is largely free, the children of agriculturists and village kamins pay no fees and ten per cent of the pupils may also be exempted on the score of poverty. In the United Provinces where the fee rate is particularly low large exemptions are permitted for the sons of agriculturists. The same is the case in the Central Provinces which show the lowest rute in India—just over a penny halfpenny a year In fact it may be asserted with fair safety that with the exception of the two Ben gals where the aided school system prevails elementary education is free for those who cannot afford to pay for it. In Burma vernacular education can be obtained practically free owing to the existence of monastic echools the high fee rate is probably due to the charges made in anglo vernacular primary It is to be remembered that the rates shown above include not only clementary, but also upper primary, classes and in two provinces what would elsewhere be I nown as middle vernacular classes When the pupils of these higher classes and also the children of the comparatively well to do are ex cepted the rate payable by the majority must be almost negligible. Books and slates have to be purchased but the books are generally cheap, and in some parts of India a prize giving or local generosity often supplies these necessaries wholesale to the poorer children. The following passage from the Punjab report is of interest --

"By way of obtaining some illustrative statistical evidence of what the fee pay treats in village schools actually amount to the inspectors were asked to send in figures relating to six typical village primary schools in each division showing the number of fee jivers and free pupils and the average monthly realisations from fees. The statements thus computed exhibit curious viriations. One school satisfied in the Devisions in the Albert School state of the School School state of the School School state of the School Schoo

^{*}The returns show a considerable increase in the average fee in Burma which is not explained in the report bit is possibly accounted for by the raising of rates in anglo-vernacular primary inclosed certain districts.

Jupils only 43 are fee-payers an average of 4 per select. Of the total number of 1 hils in these selects at it two-fills pay fees. The figures in heate that there are 1 any localities in the Punjal where the parment of select field is expected in all null that the importance of the quistion so far as this province is een erned has been graitly exaggerated. The small payment make by some of the 1 regreaturest precise receive price into a consistent rate under a state by pail by the operculturest in another form and is commonly levied in western countries from all classes of the community

The same report says that no evidence is forthcoming to slow that the losy of fees on the scale prevailing in that province (by no means the lowest in India) has had any effect in checking school attendance on the contrary the classes exempted from payment are the least ready to send their children

to school

299 In the debates on the subject of free elementary education which took place in the Imperial Legislative Council in 1910 and 1911 at was urged that while total exemption was in itself desirable at would be premiture and impractical so long as the demand for education was in excess of the supply and so long as the supply of education was inmitted by financial considerations to remit fees and thereby protanto to reduce the funds available for its extension. Nevertheless large as are the fee concessions in the provinces the Government of India has declared in favour of a larger extension of free elementary education and has made this one of the objects of expenditure from its recent ranks.

11 -Fducational surreys

The problem

300 Perhaps the most important departure of the quinquennium las been the commencement of a systematic survey of each province for the distribution and increase of schools. In some provinces, such as the Bengals, the number of schools is already large for the area to be covered. But they are small institutions often overlapping one mother their separate existence makes for waste of funds and metherency They are frequently grouped in favour ed localities while offer areas are left unprovided. Here the chains tolkey is one of concentration—the orening of a large of event school in the place of several small schools-and of redistribution-tle establishment of new in stitutions in areas of the latter kind. The task is beset by an elementary difficulty—the supply of correct maps especially in a country over much of which the vagaries of rivers are constantly changing the face of the earth And care has to be exercised that a single school be not mechanically regarded as efficiently serving a group of closely situated villages when in truth the children would have to cross a deep water cut or a morass in order to attend Madras also is thickly schooled and so are certain portions of Bomlay where for instance the district of Broach has but seven villages of any size without In other parts of India there is generally ample room for expan n school sion little for concentration

Surveys in progress 301 Orders on the subject of educational surveys were issued by the Government of India in 1011. The worf is being pushed on In Madris the director himself is undertaking the work. The Government of the United Provinces has decided that a compreten it is survey of the whole field of primary education shall be taken at once by a committee representative of official and non official opinion. A detailed survey is being curried out in each district of the Central Provinces showing the villages their population the position and status of existing schools the general principle will be the grouping of feeder schools round model vernacular middle schools subject to modification in view of local conditions.

TI e method pursued in Eastern Bengal 302 But the labour of mapping done is a long one and it is yet too early to see the results. In Eastern Bengal however a survey was commenced in 1906 in connection with the proposal to establish board schools in those districts. (The problem did not arise in Assam where the system of board schools already prevailed and where the two distincts possess only one school respectively for 16 3 and for 14 3 square miles). The scheme is described in detail in a note printed among the proceedings of the Allahibad conference to which is appended a specimen educational map of a distinct. It involved three processes the concentration of grants in over-schooled areas the construction of maps and the establishment of board lower primary schools. The

first was necessary in order to render necessary schools more efficient and to save funds for the work of general expansion. As was to be expected the carrying out of this part of the scheme was not unattended with danger and difficulty and the report states that the spread of primary education was temporarily affected by drastic and indiscriminate action in several districts Nevertheless even after the withdrawal of grants from schools which over lapped with other schools the distribution remains one school for every 23 square miles in the Dacca division for every 4 square miles in the Rajshahi division and for every 35 in the Chittagong division. The next task was the preparation of maps Inspecting officers says the report to neglect the growth of schools where the population is comparatively depressed and where touring is a matter of great difficulty and to congregate schools in the larger and more accessible villages. It was now decided to cover the country with a network of good schools one in each panchayati union-equivalent in area to about nine square miles A good aided school might if well situated serve as the union school. Otherwise a board school was established. Meantime the aided school system was retained—save for the withdrawal of grants where schools overlapped—so that the board schools were linked up by a finer mesh of privately managed institutions Finally Mr Roy thus describes the method of starting these schools -

The bord in consultation with the inspecting shall decide what existing schools are sufficiently central and successful to junify their convers on into board schools and where allogether now schools should be writtled. Per manufacture of the properties of the prop

In this manner 1345 new teard schools have been opened while we two divisions out of the three 658 good aided institutions serie as union schools. The total number of panchayat; unions is 4701. A substantial portion of the task has diredy been accomplished. The report pronounces the scheme a success. Had larger funds been available progress would have been more rapid for as already remarked the people are coming forward with offers of land and contributions far in excess of the number of schools which the boards can annually undertake. The result has been that while the total number of schools (board and privately managed) has only slightly increased the number of pupils has grown by 142 597 and the number per school by 8

X -The education of those in employment

303 Poverty custom and the apparent muthity of education have com Employment bined to bring about the general employment of child labour in India This and education acts is one of the most powerful obstricts to the extension of elementary of children instruction. The difficulty and such remedies as have been attempted may be considered is they affect the child of the agriculturist or the labourer the factory or ter garden child and the employee of riper years

304 The problem of the agriculturists or libourers child is at once the (a) of agn largest and the most difficult. The small boy is expected to help his parent at culturists times of sowing weeding and resping sometimes to tend the cattle per returnly and generally to do odd jobs about the house. It may be surmised

that the child too prefers these out of door and active forms of employment to the sedentary and monotonous confinement of a school Apart from the prescription of a curriculum which the parent will consider useful and the child attractive the obvious rejuch is a half time system which will provide a simplified form of instruction for those who must spend a portion of the day if the fields release them from school in time to perform their labours and thus impart education without upsetting the immemorial domestic economy of a large fraction of the world's inhabitants. The system has been tried and has fulled. Introduced thirteen years ago into the Central Provinces it insisted on the attendance of the poorer children only for three lours at most in the early morning and was undoubtedly beneficial for a t me the last quinquennial review stated that its effect in overcoming the reluct ance of parents had been small and that its introduction was unpomular in Berar where parents are richer readily permit their children to go to school and demand full value for their money. A somewhat similar experiment made in the northern division of Bombay in 1902 was entirely unsuece sful Another attempt was made in 1909 in a few schools of that division however it was confined to the busy agricultural seasons and provided for attendance in the afternoon after the return of the children from the fields This experiment likewise fulled and was discontinued "The fact is says the inspector that if children are going to the fields they go there for the day and cannot be induced to attend school that day . It is hoped that a satisfactory solution has now been found whereby the rudiments of know ledge may be rapidly diffused while provision is also made for higher verna cular instruction. Schools are to be divided into rural and full primary the former being merely a truncated form of the latter with an identical course so far as the teaching goes In the Punjab tle half time zamindari school was sin ilarly unsuccessful largely because the people would not accent a curriculum which did not enable the child to proceed further up the educa tional ladder. Such of these institutions as survived have been merged into the system of rural schools and in 1908 it was found necessary to link up the rural school like its rival the town school with the secondary school sys tem while retaining certain differences of curriculum. The following remarks of an inspector in the Punjab are significant -

To the few agriculturists who wish their children to go out note the world and therefore to proceed to a secondary education the primary school as popular where it levels on to the middle course and unpopular where its curriculum is definitively rural but to the ordinary validage agriculturist whose boy attends selved from the resion in partic live obscause he is saked to by the local lambandar the school is equally complained of for unfitting its pup is for field life afterwards and the rural school curriculum is merely a delision and a samer. The conservative agriculturist is naturally averse to a school ng that seems to him to benefit the pupil only if he deserts his father a occupation.

The fact is that a curtuled school day involves a curtailed curriculum. The benefits derived from this are not obvious. It does not enable a boy to proceed to a secondary school. For does it provide the boy allo wants only a vernacular education with sufficient knowledge or mental discipline to prevent his early relapse into illiteracy. So much for the rational objections of the parent. Further there are powerful counter attractions—the sunshine the free life the fascination of the hereditary labour in the fields and the healthful wearness that it induces.

(b) of labourers

305 There are other types of labourers in the village—weavers fisher usen tanners scavengers etc. Here the difficulties of eithy employment are enhanced by those of caste prejudice. The education of these sections of the community will be treated of—so far us it is capable of treatment—in it e chapter dealing with depressed classes. But the following passage from the United Provinces report may fity be quoted here.

The school go ng population has from t me namemoral been confined to the higher or clean castes and the idea of throwing them open to it elow castes las been repugnant to the ind an and But lately a certain amount of interest has been a played in the depressed classes by leaders of opinion but generally it e interest has not got beyond another of a document of the recognition of the right is something. This year however cases are reported of actual work being attempted in different parts of the province more expectally to Meerit and Dely in Dim

The inspector thus describes the school he vanted in Dehra Dan — Ixcellent work is being done and boys are all very keen. They come along as soon as their work is over and stay for about two hours. They are taught rendary writing and a little antimete the schools are conducted by the Arya Samajund affar as I resumber there are about board have provided teachers (three appointed by the Satration Army and two by the board) in five dom colonies. The domi are said to be much opposed to the education of their colliders and the progress up to the present is ranged by the art of the education of their colonies are the same and to be proposed to the education of their colliders and the progress up to the present is ranged by the art of the water challenges that the day are the same and the progress up to the present is a flow as the colonies of the same and the progress in the present is challenged by the same and the progress of the same are the same and the progress of the same and the same an

306 Compared with the problem of the preceding paragraphs that of (c) in factory factory children is minute in size but important by reason of the desirability employ of placing things upon a proper footing while they are of manageable dimen sions in view of the possibility of a sudden industrial expression. The Fac tory Labour Commission of 1908 did not consider that factory owners should be compelled to provide elementary education for the children employed since education in India is not compulsory but they thought everything should be done to afford facilities and that the only solution was the establishment of special schools for factory children at suitable centres close to the factories where the course of instruction would be repeated twice a day for the benefit of each set of half timers and the maximum attendance for each set would be two hours These special schools would have to be financed by the local authoratics but factory owners would probably assist. They also suggested that the child of thirteen years of age who could produce a certificate of proficiency should be permitted to work as a young person if pronounced physically fit Where industries are small and scattered or where employ ment is of an intermittent nature organisation is difficult. But the Govern ment of India have urged the importance of adequate arrangements in larger centres especially in cotton and jute mills where it is probable that about 37 000 children are employed Government municipalities and mill owners separately or in combination have opened schools at a considerable number of these centres—at Madras Bombay Ahmedabad Hooghly Cawapore Agra and Nagpur Often the apathy or hostility of the hands acts as a check to attendance or quielly empties the school and where pressure is brought on children to attend by the mill owner the children sometimes leave the mill Figures of attendance are available for four provinces containing about half the children thus employed About 16 per cent of the children are at school

Disappointing as the result is it is to be remembered that the percentage of those at school to the children of a school going age of all kinds in India is

The problem is a difficult one and calls for constant effort but 177 307 There is another class of organised and concentrated employment (d) on tea on the tea gardens These are situated chiefly in Assum The question of gardens the education of the children of the garden labourers has for some time attracted the attention of government and certain of the employers have opened schools on their estates at their own expense During the quinquen nium the Government of Eastern Bengal and Assam deputed an officer to enquire into the conditions of education. It was found that the majority of boys and practically all the girls grow up illiterate. It was suggested that managers should be offered the choice of schools entirely maintained by govern ment of aided half time schools under the control of the employer but open to regular inspection and of unaided chools under the same management and open only to informal visits from government officers. A programme was drawn up a financial scheme was framed and money was allotted. It is yet too early to judge of the success of these measures But the report sufficiently indicates the difficulties that may be anticipated Some of the schools which were established have already collapsed. In the Rajshahi division of Eastern Bengal a fair number of schools have been opened but the attendance seems to be mediocre

308 There are night schools for adults. They are intended to provide \ight\(\text{ight schools} \) education for day labourers who desire to extend the education they received

as boys or to repair its omission. Ordinarily they are free schools conducted by the teachers of day schools who thus earn some additional grant. In some places members of the police chaprassis and domestic servants are reported as attending them. But as cointed out in the Bombay report, they are most likely to succeed in industrial centres. Thus there has been slow but stendy increase in Bombay from 96 schools with 2 198 pupils to 101 schools with 2 571 pupils and in Bengal from 783 schools with 13 725 pupils to 923 schools with 17 215 pupils In Lastern Bengal and Assam on the other hand where there are few industrial centres apart from tea gardens, there has been decline nor is this to be wondered at since the report appears to indicate that the attendants are raivats. The comparatively small increase in Bom bay is attributed by one of the inspectors to the poor instruction and the non payment of fees and the report considers there is little future for such institutions In the Bengal report the opinion of Rai Sahib Bhagasati Sahas (an additional inspector) is quoted to the effect that so long as the labourer for whom this class of schools is intended can earn a decent living without educa tion there will not be any real demand for such schools and a night school in the sense of a continuation school is out of the question so long as educa A popular night class is attached tion is not regarded as an end in itself to the industrial school at I ucknow and another also fairly successful to that at Gorakhpur Perhaps their comparative popularity is to be partly assigned to the nature of the institutions to which they are attached at Lucknow, in response to the request of the labourers the workshops have been thrown open at night in order that the learners may study modern machiners in operation

Continuation schools

309 A special kind of institution is mentioned in the Bengal report-con tinuation schools for those whose education has been slight and who also desire instruction in technical and commercial subjects. Their number has declined but they contain over 4 000 pupils and government contributed nearly Rs 13 000 to their cost. In addition to other defects, they have not been established at centres of trade and industry and their condition is at present the subject of enquiry

\I — \Unddle \tau ernacular schools

Definition

310 The middle vernacular school had its origin in the United Provinces where it formed part of Mr Thomason's system It is a kind of glorified primary school situated in a large village and continuing elementary instruction generally through two standards beyond the upper primary classification of these institutions is a difficulty. Under orders issued in 1883 they were placed among secondary schools but as regards both their character their intention and their effect they belong to the primary school system and they are now classed as such in Madras and Bomba. They con tain all the classes of the primary school in addition to the additional seculed middle classes. They carry the education of the village boy whose parents desire for him something better than mere elementary instruction to a stage which will enable him to appreciate the literature of the vernacular and imbibe slightly advanced knowledge in geography history and perhaps They produce the material from which are found the most promis ing teachers of vernicular institutions in some provinces indeed they con tain small training classes as well as classes of general instruction

311 In the middle vernacular school the time of the pupil is not taken up nor the continuity of his studies broken and retarded by the necessity of learning a foreign language In Madras and the Bengals indeed English is In the two latter provinces it forms a voluntary subject the introduction of which was popular owing to the fact that the general curri culum was the same in secondary and in primary schools The sharp distinc tion now drawn in Eastern Bengal and Assam between the courses in middle vernacular and middle English schools and the reservation of middle verna cular scholarships to schools of that denomination have largely reduced the numbers of those reading English in the former kind of school

A umber of schools and pupils

312 Owing to the increasing popularity of English education the gradual decline and final extinction of middle vernacular schools are commonly prophesied Yet the number shows an increase-from 2039 schools with 38,373 pupils in the middle stage in 1907 to 2,191 schools with 45,464 pupils in the middle stage in 1912. Of the schools, 999 are under public management, and 1,262 under private management. The increase of pupils has taken place man, in Bengal and Eastern Bengal and Assam there has been a decline. On the whole, the average attendance at a middle vernacular school has risen and is now 94 against 90 in 1907. The increase in enrolment is shared by all provinces save the United Provinces, where (notwithstanding a large increase in the total number of pupils) the number per school has declined.

313 Expenditure has risen from nearly 12½ to nearly 15½ lakhs out of Expenditure which almost 11 lakhs is found from public funds. The average cost of a school is Rs 705 a year and that of educating each pupil is Rs 7½. This rate of expenditure is unquestionably too low for a type of education on which the future welfare of all vernacular schools so largely depends. The middle vernacular school deserves every encouragement for the sake of the interest which it is capable of evoking in the study of the vernacular and the material which it supplies to the normal schools.

XII -School age and literacy

314 The population of the area covered by this report is now over 255 The number of millions. The number under instruction is 6,780,721, or 177 of the children under population of a school going age, if we reckon this as 15 per cent of the primary total. But the figure of pupils includes those who are at higher institutions instruction. In order to ascertain the number undergoing elementary education, it is necessary to calculate, not the total number of pupils, nor yet the number in primary schools, but the number actually reading in the primary stage whether of elementary or of secondary schools. The number of these in public institutions is just below 3½ millions. To this must be added those who are reading in 'other schools,' since these are mainly primary, and also those in such private schools as give elementary instruction in the vernacular.

In primary stage of public schools 4661,101 833,316 5,409,416 In other public schools 121,513 21,233 / 145,746 In elementary private schools tesching a 346,156 20,678 367,631 vernacules.

TOTALS 5,131 770 875,426 6,007,196

The number of children under primary instruction may thus be taken as 6 milhons, or 15 7 per cent of the population of a school going age. Two years ago the answering figure was 4_{10}° millions of pupils, the increase during the quinquennum has been nearly 1_{10}° millions

315 The causes which depress the number under instruction in India are Retarding the slight demand for education in an agricultural country, the ently employ causes, ment of children, the diversity of castes and religions, the existence of large depressed communities and the social position of vomen. The influence of this last cause is both direct and indirect. So far as education and literacy are concerned, the female population may almost be ignored. The reaction on the male population cannot be estimated, but, when half the population grows up practically illiterate, the incentive to education in the other half must be sensibly lowered, and, where home education is a thing almost unknown, the figures of literacy are affected and education does not bulk as a customary and natural adjunct of life.

316 Of the male population of a school going age 29 8 are in educational Education and institutions of all grades Of the six million children under primary literacy among education approximately 5,182 000 are males, that is, about 26 per cent of males the male population of a school going age is under primary instruction. Of the total male population of British India 110 per mille are literate (These figures may appear inconsistent with those given in paragraph 320 for both sexes, but the literacy there is for the most literate quinary period; in the present case the percentage of literacy is reckoned for all ages,

including childhood when the percentage is naturally insignificant) If we take the male population over 10 years of age, the percentage of literacy is

Ti e length of sel ool life

317 It is important in judging the value of the education given to con sider the length of school life and the effect upon literacy. In 1912 figures were collected showing the classification and approximate age of the majority of pupils in ordinary schools throughout India The composite table com piled from these figures is shown as general table A. The classification differs slightly in provinces eg some have no infant classes so named others have one and others two such classes Hence the figures in columns A and B and to a less extent the figures under other columns have had to be adjusted so as to produce a uniform classification. It is necessary to consider here only the primary stages Pupils under secondary education number 353 000, and this is the number contained in columns \ I to \ and a portion of V It will suffice therefore to consider the columns A to V, which may be taken as showing the pupils under primary instruction

318 The calculation of the average school life which may be deduced from these figures is necessarily based upon a considerable number of assumptions and approximations It may be assumed that each child reading in a higher stage has read in the stage before also that the time taken by each pupil in passing through each stage is a year. The particulars recorded for each age do not bear out the accuracy of these assumptions but age figures in India cannot be regarded with any reliance Further, the proportion of children who have read for any given period depends not on the number of children shown in the lower stages in this table but on the figures which would have been shown in tables for previous years had such figures been collected may be rectified by assuming (what is approximately correct) that the numbers attending school in recent years have been increasing at the rate of five per cent per annum The method of calculation is shown in appendix VII The average school life of the primary pupil (that is of the great bulk of

pupils) is approximately 3 83 years

319 It is interesting to observe that the provincial tables show that school life is longer where the board school system prevails e g the age is very short in Bengal moderate in Madras comparatively long in Bombay the United Provinces and the Central Provinces Exceptions are the Punjab and Burma The organisation of classes in the Punjab doubtless causes the school age as calculated to appear shorter than it really is in Burma the public schools educate less than half the pupils and presumably draw those who would naturally stay a considerable time under instruction thus vitiating the comparison

The grouth of Literacu

320 Before full deductions can be made from these figures at as necessary to consider the important question of literacy and illiteracy. At the census of 1901 it was found that of the total population of India (both British India and native States) 53 persons in every thousand were literate. At the census of 1911 it was found that the number had risen to 59 per mille. The following table gives the comparison as regards age and sexes -

		NUMBET PER 1 000					
Age per od	LITERATE IV 1901.		ю1.	LITERATE IS 1911			
	Total.	Mal	Female.	Total	Male	Female	
Ali accs	53	28	7	59	105	10	
0-10	s	13	2	7	1°	3	
10 lo	51	80	19	w	Ð	17	
15-20	٠	13*	14	80	341	*1	
"O and over	74	139	8	8	1.0	13	

These figures are for the whole of India inclusive of native States and other portions not dealt with in this review. In British provinces literates number 62 per mille in native States and agencies 46 per mille

321 It is important to remember that the definition of literacy adopted in 1911 differed from that of 1901 and likewise from that prescribed for earlier enumerations In 1881 and 1891 the population was divided into three categories-the literate the learning and the illiterate. In 1901 the class of 'the learning was dropped and literacy was defined as the ability both to read and to write any language In 1911 the definition was ability to write a letter to a friend and read the answer to it. Hence those who can read but not write are not numbered among the literate and their number is doubtless large These changes have had two effects. Tirst as was remarked in the census report for 1901, the tendency of the enumerators was probably to omit from the category of the literate those persons who were still under instruction even though they had passed beyond the preliminary stage of education This would depress the figures for the age period 10-15 and would account for the large difference between the figures in that and the next age period (As this consideration affected comparison with the figures of 1881 and 1891 the Census Commissioner suggested that the comparison should be of those over 15 years of age and that it be assumed that all who at the two first enumerations, were classed as over 15 years and as 'learning' should be reckoned as literate. The result of this when computed for all India is a proportion of 82 literates per mille as against 74 in 1901) Second the more stringent definition has doubtless excluded in 1911 persons whose attainments would in 1901 have entitled them to be classed as literate This is particularly remarked in the report from Burma where the proportions of literacy were found to have undergone reduction especially in those areas where the pongyi Lyaung (or monastic school) is most prevalent presumably because the measure of education attained in these indigenous institutions was insufficient to enable its recipients to comply with the new condition As will be noticed later on girls are excluded from monastic schools. And it is significant that in Burma while the percentage of literacy has risen during the decide ending 1911 from 215 to 222 per mille for the total population it has fallen as regards the male population from 378 to 376 and has risen as regards the female from 45 to 61 In the figures for all India the stagnation for both sexes in the age period 0-10 and the actual retrogression among males during that period are doubtless due to the more exacting definition. This receives further confirmation from Madras where the definition now prescribed throughout India was adopted in 1901 and where the increase in literacy amounts to 28 per cent as against 16 per cent for the rest of India

S22 It is necessary briefly to compare the literacy figures for different Literacy in provinces. This is shown in the following diagram in which a shided line different represents literacy among males a black line among females. The diagram provinces has been kindly supplied by the Honble Mr. Gatt the Cenus Commissioner. It does not show Fastern Bengrl and Assam the figures for which are included in Bengal while those for the new province of Bihar and Orissa have been separated.

Diagram showing the number of persons per 1 000 in each province who are literate

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It will be seen that among provinces Burma where caste and purda are unknown and where there is a firmly established system of indigenous schools easily takes the first place A second locality where education is compara tively widespread is the extreme south of India This is not so clearly shown in the Madras figures But the southern districts of Madras show a high per centage, the little province of Coorg is contained in this area, and so are the native States of Cochin and Travancore where literate males are about 250 and literate females about 50 per thousand. In these areas there is a large Indian Christian community amounting to 25 per cent of the population Bengal Madras as a whole and Bombay come next with their comparatively large record of British rule their sea boards their marketable crops and the former with its tradition of learning its large middle class and the mental agility and taste for sedentary employment which characterise its inhabitants The United Provinces the Punjab and the Central Provinces are the most backward among the larger administrations These are land locked territories highly agricultural considerable tracts are inhabited by lackward communities and in some parts education was almost unknown before the British occupation Needless to say literacy is much commoner in the cities than in rural tracts—303 per mille of males and 91 per mille of females As for the knowledge of English it is spreading rapidly 17 million now know English-in advance of 50 per cent on 1901

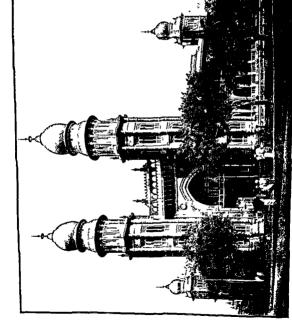
General con clusions re garding growth of literacy

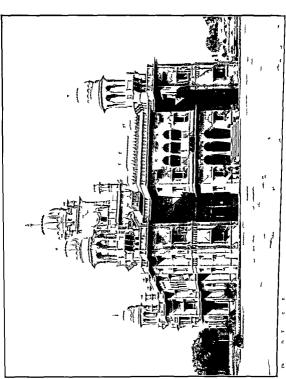
323 The general inferences which we may draw are as follows (1) Literacy has increased during the decade which began a year before the commencement of the quinquennium ending 1906 07 and closed a year before the end of the quinquennium under review. The increase reckoned on actual figures has been from 53 to 59 per mills reckoned on the population over 15 years of age from 74 to 82 per mills (1) The increase has been proportion ately greater among girls than among boys representing an advance of 61 per cent in the case of the former of 15 per cent in the latter. This is especially shown by the low proportion of femrle literates of 29 years and upwards as compared with that in the age periods 10—15 and 13—20 years. Some of the census reports notice this striking advance (in) The general increase is to some extent minimised by the more stringent definition of literacy which has been adopted

Comparison of figures of education with those of literacy

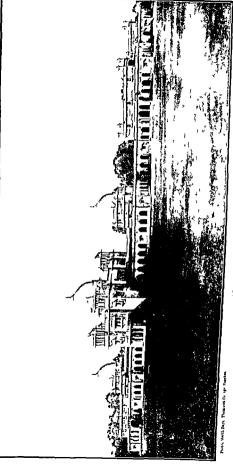
324 A comparison between the figures of education and those of literacy produces some interesting results. It is generally supposed that in the majority of cases the results of education in India are not permanent. The truth of this supposition may be roughly tested by comparing the proportion of pupils in a period of five years and the proportion of literates in some subsequent period of five years with the actual population living during those periods The periods taken may be from 5 to 10 years of age for education and from 15 to 20 years for literacy. It is undesirable to take the intervening quinary period since those at school during it are fast diminishing and those reckoned literate are probably minimised by the fact that many are still under instruction The result is that 108 per mille of the population from the completion of tle fifth to the completion of the tenth year are under education and 91 per mille are literate from the completion of the fifteenth to that of the twentieth year It would however be dangerous to accept this is even an approximately correct calculation. Ages in India are difficult to ascertain and the figures for ages given in general table X conflict with those given for classes. It is safer to ignore the ages and simply take the earliest period of five years schooling assuming that the children at school during these five stages are aged about 5 to 10 years. This gives 148 at school in every thousand of the children between those ages If 91 per mille are subsequently literate then 39 per cent of those educated rapidly lose the benefit of their education. The calculation is vitiated by the facis that the literates are the product not of the figures for 1912 but of smaller figures in eirlier verrs and that general table \(\) does not show quite the full number of those under primary education \(\) These two causes of error act in opposite directions and may be taken as roughly cancelling each other. The failure of education to produce literacy in 39 per cent of those educated may be assigned to the short school age and to the fact that the schooling takes place

at a very early age when its effects are easily effaced In Burma alone the percentage of literacy between the ages of 15 and 20 exceeds (and largely exceeds) that of education for an either period of five years. The explanation is that elementary instruction is largely given in monastic schools, many of which are unrecognised and hence not included in the figures on which this calculation is based, and whose figures (even if they were included) would probably be under stated.

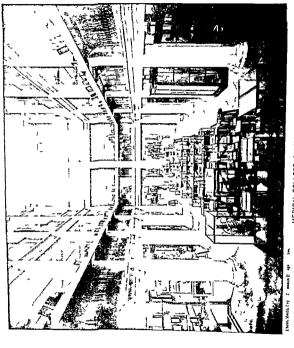




K NG GEORGE S MEDICAL COLLEGE LUCKNOW



AGRICULTURAL COLLEGE, CAWNPORE



CHAPPERIX

PROFESSIONAL COLLEGES AND SCHOOLS

I -Introductory

32.2 The present chapter deals with law medicine engineering agriculture and allied subjects. And all the institutions concerned are administered by the departments of education. Law and engineering colleges and schools are nonmally under the local directors or universities but their administration is largely influenced by the educational policy of the High Courts and the Public Works Departments. Certain legal examinations are for example controlled absolutely by the High Courts while the universities control others. Medical institutions are under the supervision of the medical dipartments. Agriculture and forestry are not administered by the Department of Revenue and Agriculture. Veterinary work is also dealt with in the same department.

II -Law

326 There are various grades of legal practitioners in India Advocates Legal practi or rakils of a High Court practise before that court (but the latter do not save tioners and at Madras and Allahabad practise on its original side) Pleaders and their qualification mulhtars practise in the subordinate courts save in the Punjab Burma and tions Central Provinces where first grade pleaders are allowed to practise in the Chief Court of the province Admission to the rolls and the qualifications for admission are decided by the chartered High Courts of Calcutta Madras Bombay and Allahabad and also (subject to the Local Government's approval of the rules framed under the Legal I ractitioners Act) by the non chartered Chief Courts of the Punjab and Burma The High and Chief Courts are also empowered to make rules (subject to previous sanction of the Local Gov ernment in the case of Chief Courts) for the qualifications admission and certificates of persons deemed proper to be enrolled as pleaders of subordinate The usual qualifications recognised are (i) a call to the bar of England or Ireland or enrolment as an advocate of the principal courts of Scotland (ii) the passing of an Indra university degree in law—the BL or LLB the ML or LLM the DL or LLD (iii) the passing of the pleadership examination prescribed and conducted by the court itself (ii) the passing of a minor examination such as that for mulhtars generally held by the court The qualifications carry different privileges under different courts Calcutta admits as advocates only barristers of England or Ireland and advocates of Scotland and now likewise insists on a year's practice in chambers in England (unless the candidate is a member of the faculty of advocates in Scotland) and either three years education in addition to this in the United Kingdom or a degree of a university either of the United Kingdom or of India Other courts recognise the same but have not adopted the added conditions—save that the Bot buy High Court requires a year's practice in chambers but they also recognise Indian qualifications. Madras admits masters of laws of the Madras University after a period of further study Bombay admits bachelors of laws of the University of Bombay after attendance and a further exami nation Allahabad admits LLD s of the University of Allahabad, the Pun jub admits pleaders of the first grade who have practised for ten years (five of these in the Chief Court) or for three years in the Chief Court after obtain ing the degree of doctor of laws of the Punjab University Bombay and Allahabad also admit High Court or first grade pleaders after ten years practice and under certain conditions Madras and Burma admit advocates of other High Courts

327 The qualification for enrolment as a rakil is usually the backelor ship of law with some further distinction—either honours at the examination

or a further test or a certain number of years of practice. A law degree is now insisted on at Bombay and Allahabad provided the prescribed examination is passed, but at the latter High Court two years attendance at a law college is required. A pleader must either have a law degree or have passed the examination presented by the court. For admission to which certain general educational qualifications are usually laid down. At Madras the candidate for the first grade pleadership must be a graduate, for the second grade an under graduate. At Calcutta and Allahabad the intermediate standard is required and also attendance at a law class recognised by the court. The qualification required in a nuclear is generally the matriculation or its equivalent (in the Punjab the intermediate) and a special examination.

328 The plendership examination entitles the successful candidate to make an authorize courts—such as those of district and sessions judges. A makhtar (in provinces where this grade exists) generally practises (but does not plead) in the courts of subordinate judges, but in the Punjab he is per mitted to practise in all civil courts subordinate to the Chief Court and to plead in criminal courts inferior to the sessions court. It is not necessary now to enter into the qualifications of attorneys or differences of nomenclature found in different provinces.

329 This preface is necessar, in order to show the precise place occupied by those who have undergone their legal training in India and the functions of the universities in connection with that training. As to the former it will have been observed that barristers have generally the adventage over those trained in India for purposes of enrolment as advocates and practice upon the original side of High and Chief Courts. The Indian law degrees can be obtained only after graduation in arts or science and by success in a searching examination. This has led many Indians to utilise the easier though off England returned barristers of no outstanding ability ranking above purely Indian products of repute and experience has recently attracted attention. The High Court of Calcutta has adopted the measures detailed above for ensuring a due measure of general qualifications in those who are enrolled as its advocates and the High Court of Bombay has prescribed the condition of one years practice in chambers.

Functions of the Univer silies 330 As to the functions of the universities these bodies prescribe and conduct examinations which are recognised by the courts a qualifying successful candidates for enrolment under themselves or their subordinate courts in various grades. The courts further mile use of educational institutions in that the pleadership classes attendance at which is compulsory before the pleadership examination can be attempted are connected with and generally held in arts colleges often in combination with law degree classes. But the special examinations for pleaderships are conducted by the High or Chief

Development of legal educa tion Courts 331 The story of legal education is told in Mi Nathan's review original Acts of incorporation empowered the universities to grant degrees in A sub committee was appointed to consider the regulations for the three older universities Instructed to follow the model of the London Uni versity it found that the systems of Hindu and Muhammadan law and the procedure and practice of Indian courts rendered the mandate impossible of close fulfilment Two systems of opposite character evolved themselves-con centration at single colleges in Madras Bombay and the Punjab the growth of classes at numerous local colleges in Ben, al and the United Provinces Bombay more properly assumed a mid way position for while the Govern ment Law College (more properly an evening school attached to the Elphin stone College) alone taught the full course classes attached to other colleges could present pupils for the preliminary examination-a plan which has now been abolished Both systems proved unsatisfactory and were found to produce many graduates in law but few real lawyers but the latter was the more unsatisfactory of the two because instruction (inadequate in both) was often almost non existent in widely dispersed classes The following quotation from the report of the Calcutta University may be taken as typical — There was not a single college devoted entirely to the teaching of

In and judged from the point of view of the requirements of the new regulations they were all found to be far below the mark. The arrangements made were wholly inadequate and could only be regarded as mere colourable compliance with the regulations. The students as a rule were found to be irregular and unpunctual in their attendance, and in the majority of cases discipline was found to be extremely lax. The report quotes the opinion of Sir Ashintosh Mul harp, the Vice (Inacellor—The majority of students have no books, they do not intend to listen to the lectures very many of them are employed as teachers in schools or clerl's in public offices and their only arrively is to get credit for attendance at a certain number of lectures as required by the university regulations, and it is by no means an unusual in cudent for a student to or a student to extimed for each for a proxy.

The feature of the quinquennium has been the recognition of these facts accompanied by attempts at remedy—the establishment of central institutions the reform of courses and the improvement of the condition of students by the opening of hostels

372 Any action tending to render less easy the entry to a remunerative Reform during and attractive profession is inturilly regarded with some opposition. The the gunquen dual control over courses and examinations does not facilitate reform. It is numbered for most strong like steps hitherto taken have resulted in a qualified success. Much however has been accomplished. I aw colleges and classes* numbered 18 in 1902 and 33 in 1907. They have now been reduced to 25 including two colleges which have not been shown in the Bengal general tables. There has been no falling off in students who were 2808 in 1902 and now are 3046. On the other hand not only has expenditure risen from Rs. 125.786 in 1902 and Rs. 157.003 in 1907 to Rs. 264.494 in 1912 but expenditure from proxincial funds which fowing to the cheep scale on which the schools were run and the theory that they must pay or more than pay for themselved was a minus quantity in the two previous quinquenna. Is now Rs. 37.003 a year this means an increase of Rs. 40.640 since in 1907 government made Rs. 5347 out of its classes. The claimers in the way of concentration of institutions and improvement of staff curricula and supervision are given in detail in the succeeding paragraphs.

333 Madris Bombay the Punjab Burma and the Central Provinces (a) Concentrate on the United Provinces has five Fastern Bengal tone of teach and Assum four and Bengal eleven

In Madras the Government Law College prepares graduates for the B L degree and for the first grade pleadership examination and those who have passed the intermediate for the second grade pleadership. It is self sup porting The strengthening of the staff was under consideration at the close of the period and has since been sanctioned. The Law College at I ahore is maintained by the university. A whole time staff was appointed during the quinquennium and expenditure rose from Rs 11 345 to Rs 24 585 most of which is covered by fees The vernicular classes have been abolished the examination results improved and a hostel opened. In Bouleav too there is now only one institution-the Government Law School (classed as a college) At the beginning of the quinquennium six mofussit colleges were also recognised as preparing for the preliminary II D In 1907 Dr Selby pointed out that if a full time college with non practising tutors could be estal lished the course of study might be reduced to two years after graduation and the mofussil classes might disappear. The course has been so reduced the classes have vanished but the law school (at the Elphinstone College) is still an evening school where as Mr Prior says tired lecturers teach tired stu dents the whole course is not covered and the stipends are insufficient to attract the best lawyers as instructors. The school new contains 458 students and more than pays its own expenses which amount to Rs 26 144 The surplus funds are being accumulated for a building

Partial concentration has taken place in the Bengals and the United Provinces Central institutions have been established but while local classes

^{*} All a c now classed as colleges save one—the sel col in Rangoon This natitution was omitted from the a pplemental table in the last review

have been diminished, they have by no means been extinguished. The Un'versity of Allahabad opened a law college in 1907, which already contains 304 students-considerably over half the total in the province. But the increase in the number of these (from 307 to 559 during the period) and the want of a proper habitation for the central institution have contributed to the continuance of classes The total number of institutions is now five as against six in 1906 07. The University College has a whole time principal a professor and two assistant professors. The work is carried on in the Muir Central College But the classes are over-large for the rooms and will shortly be accommodated in the new senate hall. The erection of a separate building and of a hostel is under contemplation. Bengal and Eastern Bengal and Assam have been affected by the new regulations, the lengthening of the course and the general sense of dissatisfaction at the existing state of affairs In Bengal four government and certain private colleges previously maintained law classes In the former the classes had to pay their way, in some at least of the latter they were sources of considerable income. In 1908 00 the system was changed A University Law College was opened at Calcutta, with a whole time principal, three professors and eight assistant professors It contains 639 students and costs nearly Rs 62,000 a year, of which Rs 23 500 comes from provincial resources To provide for Bihar, the classes at the Patna College were not only continued, but raised to the status of a second law college both for B L and for pleadership students whole-time principal and four lecturers for 41 degree students, and one lecturer for 30 students reading for the pleadership examination. To provide for Orissa, six scholarships of Rs 30 a month, tenable for two years, have been instituted at Patna The other BL classes attached to the government colleges at Hooghly, Krishnagar and Cuttack were closed; they also disappeared at all private colleges save the Ripon in Calcutta. So much for degree classes But pleadership classes have not only been continued at the City, Ripon and Metropolitan Colleges in Calcutta, and at the Midnapore, Berhampore and Tej Narayan Colleges, but (in view of local needs) have been started anew at the government arts colleges of Hooghly, Krishnagar and Ravenshaw (Cuttack), and (as stated above) at the Government Patna Law College. The result of this is that there are eleven colleges or classes (all are classed as colleges), of which three teach the B L. course, and the remainder the pleadership course (two of the latter, riz, Hooghly and City Colleges which had no pupils, have not been shown in general table III); three are government institutions, one (Midnapore) is municipal, one is aided and four are unaided. The University College is strictly an aided institution, but has been shown as one managed by government in the Bengal general The number of students is 1.146 against 1.272 in 1907, the total expenditure was Rs 1,10,390 against Rs 43,141 and the expenditure from provincial funds was Rs 39,725 A somewhat similar process has taken place in Eastern Bengal and Assam due to the same causes. The BL classes at the Dacca Rajshahi and Braja Mohan Colleges have been closed A single college has been opened at Dacca of which the principal is identical with the principal of the arts college, while one whole time and two half time profewors have been appointed. At the same time, however, classes (with in agmificant numbers) for the pleadership examination continue to be attached to the Dacea Raishahi and Chittagong Colleges and (in Assam) to the high school at Gauhati

In Burma the Government College at Rangoon has a small class of ten students. There are now no B L students. It is suggested that this is the result of the extension of the course to three years; and the professor considers the Calentta University courses ill adapted to the needs of Burman students, though certain changes in the regulations to meet Buddhist requirements have been made by the university. In the Central Provinces the class at Jubhulpore base been abolished and the teaching of law is now confined to the Morris College at Nagpur. The number of students is 77 having doubled in the quinquennium expenditure has likewise doubled and now stands at Rs. 9,917, of which Rs. 4331 is met from provincial revenues.

334 It will be observed that there has been a tendency to appoint fulltime principals These are generally assisted by professors who, with few exceptions are practising lawyers. This latter scheme is in accordance with the recommendation of the Universities Commission and has the advantage of nuthising the services of men who are actively engaged in the profession.

335 Mr Orange described at length the changes in the courses effected (c) The courses in the repeated the new regulations. In the piesent review the courses and the most recent changes in them are briefly indicated in appendix IV and shown at greater length in appendix XIX. The most important modifications have been at Calcutta and Bombay. At the former university the B L course has been prolonged to three years or to two and a half years in the case of those

placed in the first division at the preliminary examination

At Bombay the course was of three years and commenced immediately after the passing of the intermediate the first LLB examination being leld after one years study It has now been reduced to two years and made wholly post graduate The resultant closure of the classes subsidiary to the Government Law School has been already noticed At all universities the course now commences after graduation and (save at Calcutta) occupies two years It ordinarily includes jurisprudence Roman law Hindu and Muham madan law the law relating to persons and property contracts and torts evidence and civil procedure crimes and criminal procedure etc. The prin ciples of equity and of legislation international law and other subjects are generally added either as integral parts of the course for honours or for the higher degree An examination in some portion of the subjects for the BL or LLB is held at the end of each year of study. The final examination results show a slight improvement upon those in previous periods Of 1 530 candidates presented in 1912 741 passed. The higher degree of ML or LLM is also conferred on the result of an examination ordinarily after two years study subsequent to the bachelorship the Punjab University offers no such degree All universities save Bombay offer a DL or LLD degree on presentation of a thesis

As regards the pleadership examination it will suffice to say that this is a test held under the control of the High or Chief Courts generally as an alternative to the possession of a law degree. Though the classes are held in conjunction with the college classes for the degree and though some univer sity qualification is generally required as a condition of entrance to the examination the test itself is under the control of the court. The same is the case with the examination for muchtars save in the Punjab where it is under the control of the university

386 The old type law class was (and where it persists still is) held in a (d) Collegiate class room of an arts college in the early morning or the late evening. The life and resi law lecturer would come in for an hour or so mentally absorbed in prepara dence tion for his day's work in the court or fatigued at its conclusion. Such of the students is deemed it incumbent on them to put in an appearance would

the students as deemed it incumbent on them to put in an appearance would straggle in and hurry off at the earliest opportunity to their own labours (not infrequently those of a teacher in some neighbouring high school). There was no sort of corporate life no hecale building no library no supervision. A certain amount has recently been done by way of supplying these institutions with local habitations. The Madras Law College has a fine building flee University Law College at Calcutt's is held in the new Purblanga buildings while that at Allahabad will be located in the new Sunta hall as soon as it is ready for use. The law colleges at Bombay Nagpur Dacca and Ramgoon are held in the rooms of the government arts colleges at those places and at Labore apparently in hired buildings. Labraries too have been provided in certain cases. The Calcutts University Law College and the Patha Law College have made ample provision. The Punjab Law College has a fairly valuable library. There is also a library in the Madras Law College. The Allahabad University propose to establish a library of their own with a portion of the imperial graits recently made and this will no doubt provide for legal studies.

337 More important still is the recognition of the necessity for making residential provision for a class of students who though older than the major ity of arts students must often be driven to lodge in insunitary and undesir able places among surroundings wholly unfavourable to a proper upbringing

Hostels are attached to the Patna Law College as well as to the Punjab Law College The Calcutta University College hostel has already been erected with the aid of a grant of three lakhs. It is under contemplation to construct hostels for the University Law College at Allahabid and Rs 105 lakhs has been granted towards its erection. A start has been made but much still remains to be done.

III - Medicine

General

338 Medical education in India is imparted in medical colleges or schools according to the standard of qualification required. The colleges are affiliated to universities and their curriculum is designed primarily to meet the requirements of those who desire university degrees but is in Europe some cater also for the class of students aiming only at a diploma qualifying them to practise medicine in India. A brief description of the main changes in course set has been given in chapter V and appendix IV.

Medical colleges

- 339 In some colleges special courses are held in subjects which are only indirectly concerned with the practice of medicine for example at Madras there are classes for compounders dhais (midwives) and sanitary inspectors. In other parts of India these subjects are generally taught in the schools
- All the colleges admit students of both sexes and the great majority enter with the deliberate intention of procuring service under government. The students may roughly be divided into the following classes—
- (a) Indians who are under training to become civil assistant surgeons" under the provincial administrations. These were formerly required to obtain only a hience to practise medicine and surgery but the standard his recently been raised and they now have to undergo a six years course of study and obtain the university degree which has taken the place of the old L.M.S save in Madras and (for the present) in Bombay.
- (b) Military students who are Li ropeans or members of the domicoled community and are educated at the expense of the state to the standard required for the inilitary assistant surgeon branch of the Indian subordinate medical department. These students do not matriculate and they are admitted after a competitive examination in general knowledge which is nothing like as severe as that required from university students. Military students are given diplomas by the colleges none of them go on to obtain a university degree.
- (c) Casual students male and female These are studying medicine with the intention of becoming private practitioners
- (d) Post graduate students These are to be found in Madras College, where classes are held for civil sub assistant surgeons after completion of seven years service

Medical schools 340 Medical schools as distinct from colleges are not affiliated to universities. They give a 4-year carriculum with a school diploma or hience to practise. Theoretically they demand the preliminary standard of matriculation into a university before admission. It has however up to the present been found quite impossible to insist on this standard and students with lower qualifications have to be accepted. The instruction is now imparted in English.

The male students at the schools are almost entirely candidates for employment under the state as military or civil sub assistant surgeons. Many of the female students too are similarly intending to enter the provincial subordinate medical service of the hospitals administered by the Dufferin turi. I he remainder of both seves—as yet a small number—ultimately go into private practice or take service under commercial bodies such as mines, tea gardens shipping companies and the like

Increase during the period 341 Individual medical colleges are dealt with in the succeeding para graphs and an account of the government medical schools is given in appendix X. The number of colleges has during the quinquennum increased from 4 to a and of scholars from 1542 to 1822. Institutions for medical instruction (including both colleges and schools) have increased from 31 to 33 pupils from 4720 to 6044 and the direct expenditure on such institutions from

Rs 10,69,451 to Rs 13,62,227 The total expenditure in different institutions for the years 1907—1912 is shown in appendix XXI The expenditure from public funds has risen from Rs 8,97,365 to Rs 9,58,678 during the same period *

342 There are now five medical colleges -

Individual colleges

The Medical College of Madras

The Grant Medical College, Bombay

The Medical College of Bengal Calcutta

The Medical College of Lahore

King George's Medical College, Lucknow

The last is a new institution, only recently opened

The number of students attending these colleges at the beginning and end of the quinquennium was as follows —

		1907	1912
Midris		195	423
Bombay		679	531
Cilcutta		425	612
Lahore		243	156
Lucknow		Nul	100
	TOTAL	1 542	1 822

The main changes in the previous quinquennium (which saw the intro duction of new regulations in the universities) were the abolition of the Lucence in Medicine and Surgery (L M S) in two out of the five universities, and the breaking up, for purposes of specialisation, of the M D degree These reforms have been continued during the period under review

The changes in curriculum, in connection with the abolition of the Licence in Medicine and Surgery, and the substitution for it of the degree of bachelor of medicine, have necessitated numerous additions to the teaching staffs of the colleges which, along with other matters of interest, are detailed below In most of the colleges there has been a decline in the number of students, which is partly the result of the higher standards of preliminary education demanded before admission, and partly of the deterring effects of the longer course now required for a university degree. It is expected, however, that this decline will be found to be purely temporary, as indeed, it has already proved to be et Calcutta.

343 At the Madras college the physiological and hygiene laboratories Medical have been completed. The construction of hostels for civil and mittary College, students is still under consideration. More lecture theatres are urgently Madras required. There is no suitable accommodation for the teaching of pathology, and it is proposed to create a pathological institute, under the charge of the professor of pathology, who will also be responsible for instruction in bicterio.

protes

A lecturer in plysics his been appointed thus relieving the professor of chemistry of the duty of teaching this subject. A committee has enquired into the whole constitution and staffing of the college, and the recommendations made are now under consideration. Briefly, it is proposed to create whole time major professorships of chemistry, physiology, antiomy, pathology and medical jurisprudence, and to add a minor chair of clinical and operative surgery.

The number of students has increased from 157 to 423. Of those working in the college department, i.e., those who are studying for the M B C M or L M S quilifications, there are now 296. There are 12 femile students in this department, a slight decrease. The chemist and druggist department.

These figures and those of expenditure defer from the figures given in the green tables and in the supplemental tables. The figures have been always are runted by the fact, that medical colors supplemental tables are altogether control in the Midday report. The implemental tables are altogether control in the Midday report. The implemental tables and partly from figures out to today of the report are taken party from the supplemental tables and partly from figures supplied by the office of the Director General, Indian Middaid Service.

still fulls to attract students although the stand rlf r admission has been lowered. The sanitary inspectors class however, numbering about 40 students has been very successful.

The number of students who qualify tends to rise in 1907-08 eighteen is a cloud (cleven L M S seven M B) in the latest return thirty two old tained

the I MS and cleven obtained the MB

Grant Medical College Bom baj

341 During the quanquannum s me very necessary additions were made to the college in Homby. The new bacteriological and hological laboratoris were opened in 1907 05 a pathological laboratory in 1999 and a hostel to accommodate 240 civil students. The hired quarters reserved for the use of military students having been found to be inconsenient and insatisfactors it has been deeded to build a new one and plans are under consuleration.

Several important changes have been made in the staff to meet the requirements of the new curriculum. A whole-time professorship of physics was created in 1909 10 and whole time chairs of pathology and anatomy have just been sanctioned by the Secretary of State and will be filled at once. The professor of pathology will be an LMS officer, but it e chair of anatomy will probably be filled by an Indian

Lecturerships on discusses of the ear nose throat on an addities on electro-therepeuties and on skin discuss have been created also tutorships in becteriology and ophthalmology. On the other hand with the disappearance of bothy as a subject of examination the minor chair in that branch of science has been abolished.

At the commencement of the quinquennium there were 638 civil and 41 military students at the end the corresponding figures were 496 and 35. There has thus been a decrease amounting to 142 civil students which is ascribed to the 11 creasing severity of the examinations and to a larger number of students withdrawing during their course. There are now 29 female students as compared with 25 in 1907.

Calcutta Meds cal College 345 During it equinquennium the Calcutta medical college and hospital have been modernised and the teaching acco innociation has been greath improved. The fourth or administrative block was completed in 1912 and there are now an examination hall a spaceous office and library students common room waiting room for femals students und a professors from Tie new anatomical inviewing was opened in 1909. Certain buildings are still urgently required riz biological physical and pharmacological laboratories. The first of these will be included in the scheme for the creation of a chool of tropical mediane referred to later which it is bioped will shortly be taken in land. The need for a hostel was noted in the last report and is more urgent than ever owing to the increase in Calcutta house rents.

The introduction of the new regulations rendered necessary the appoint ment of a whole-time professor of biology and the intruguration of a special biological department. An officer was appointed in 1908 09 but the work is hampered by the absence of a special laboratory. A whole time professor of anatom, was appointed in 1912 relieving the second surgeon of the hospital of this duty.

The number of students continues to rise steadily. The average number of regular students has risen from 454 in 1008 to 612 in 1911 12 and of these an average of 17 are women. The military class does not fluctuate much but the number of female certificate class students has declined from 10 to 5 The number of students who qualified has fallen from 60 (67 LMS and 2 MB) in 190708 to 53 (50 LMS and 3 MB) this decline is due to the much greater stringency of the MB examination. The number of failures in the preliminary scientific examination is noticeable and it appears probable 1 at the new multiculation is not a sufficiently searching test of the capability of the individual to undertake further study.

There has long been a demand for a qualification in the subject of tropical meticine such as is granted by some of the universities and examining bodies in the United Kingdom. It has now been decided that a diploma of tropical medicine (D T M) shall be given by the Calcutta University. The corollary

sity degrees (save in the United Provinces where the university has no faculty of engineering and the college at Roorkee bestows its own dirlomas) and for superior posts in the service The changes in the university courses have already been indicated in the chapter on universities and in appendix At Calcutta Bombay and Madras the course commences after the intermediate and is now specialised in its later stages. The Punjab Univer sity alone has a lower course commencing after matriculation prepare pupils of lower original qualifications as overseers and sub-overseers for the subordinate service. In some provinces there are a few guaranteed posts and sometimes practical training under the public works department is arranged after the completion of the college course. The Punjab and Burma contain each a school-a kind of lesser engineering college-and a privately managed college in Lahore also is affiliated for the engineering certi ficate of the Punjab University The Central Provinces is building one In addition to the college at Sibpur Bengal and Eastern Bengal and Assam have a number of schools which train up to the overseer and sub-overseer standards It is interesting to notice that hiturcation in special studies is contemplated in the higher of these schools Engineering institutions frequently contain technical and industrial classes (these are prominent at Sibpur and Roorkee) and survey classes Supplemental table no 138 show only colleges since the schools are classed in the returns with purely technical and industrial institu tions But schools as well as colleges are described province by province in the following paragraphs

Institutions (a) in Madras

350 The College of Engineering at Vadras was reorganised after 1904 with courses of three years for civil and mechanical engineers and for upper nd lower subordinates The former courses are open only to graduate, the latter to those who have passed the intermediate and the matriculation re pectively It has now been decided to open a probationary subordinate class con sisting of matriculates and holders of the school leaving certificate will in future form the lower subordinate class and out of it will be chosen thirty students who have shown their fitness during the first two years of study and will compose the upper subordinate class. An assistant instructor of civil engineering has been added to the staff and the subordinate staff is in future to be recruited from the public works department officers being trans ferred to the college for three years only with a view to ensure their being in touch with practical work. The non university examinations have been placed in the hands of the staff. It is proposed to erect new buildings for the college near Advar

Sir A Bourne says that this college is the only institution in the presi dency that can be called a school of engineering and surveying. There are however (apart from schools for Europeans) three schools which offer the subject —(i) Chengalvaraya Nucker's Technical Institute at Vepery In 1911 it contained 35 pupils studying civil engineering 98 under training as mechanical foremen and fitters and 87 studying machine-drawing construction etc. It received large grants for machinery during the quinquennium (ii) and (iii) The Madura Technical Institute and the Teppakulam Institute of Mechanical Engineering at Trichinopoly are doing similar work on a smaller scale. The latter has electrical engineering classes

(b) in Bombay

351 The Bombay presidency has the College of Engineering Poona contains a university branch in which most of the students are found and This college says Mr Prior "has mechanical and electrical brancles passed through a quinquennium of considerable change and activity. The chief features of the period are the transfer of the classes in agriculture to the new Agricultural College in 1907 08 the opening of a technical normal class for workshop students in 1909 the discontinuance in 1911 of the B Sc. degree course and the change of the name of the institution from College of Science to College of Engineering the taking of the degree of BE (Civil) 1, students for the first time in 1911 the opening of the new hostel for 76 students in 190" the completion of the new chemical and geological labora tories and museum and a new wir g of the main building including a lecture-'all for physics in 1908 the completion of a new hostel for apprenticetilents in 1910 extensions of the workshops in 1908 and 1911 the com encement of the new ergmeering laboratory in 1912 the appointment of a

professor of mechanical engineering in 1908 and of an assistant professor of the same subject in 1909, and the appointment of separate professors of chemistry and geology. It is interesting to notice that geological and engineering tours have been organised the latter to irrigation works tanks drain age and sewage works and to the Tata works at Lanoli. An engineering laboratory is under construction and will it is said be the finest of its kind in India.

There are three small aided engineering classes the largest of which is attached to the Dayaram Jethmal Sind College at Karachi

352 The organisation in Bengal and Lastern Bengal and Assam is pecti (c) in the liar. The two provinces may conveniently be treated together. A single Bengals system of training matriculates for subordinate posts in the public works depritment prevails. This truining is carried out in a number of technical schools (really minor engineering schools which teach only to the sub overseer strudard) in the two schools of engineering and in the apprentice depart ment of the college (in all three of which instruction is continued to the over seer strudard and the foreman mechanics certificate). A single joint board of technical examinations supervises the tests for the overseer and sub over seer classes and also for 'B' classes in high schools and performs other functions. Finally a single college (the Civil Engineering College at Subpur close to Calcutal) instructs those who have passed the intermediate in a degree course under the Calcutta University whose degree admits to higher posts in the public works department.

353 This college is the central institution for the two provinces and arrangements are made for reserving vacancies in the classes for pupils domi-ciled in Eastern Bengal and Assam Its work is of a singularly varied nature and may be divided as follows -(i) The engineer department admits those who have passed the intermediate (in practice many graduates also enter it) teaches up to the university BE degree and thus prepares its stu dents for the engineer branch of the public works department or for industrial employment. The university course consists of two stages the IE and the BE (intermediate and bachelor in engineering) The intermediate is now taken at the end of the second instead of the third year of the course and the major portion of the mathematics and science has been removed to it with a view to concentration on the professional subjects during the subsequent two years (in place of one year) which now intervene between this examination and the degree This change has made the intermediate more difficult to pass but has increased the percentage of success in the degree examination. After the intermediate stage the university regulations pre scribe separate specialised courses for the BE viz (a) civil (b) mechanical and electrical and (c) muning engineering. The two second branches how ever exist as yet only on paper no provision having been made for their tea-hing. Thus the college in its engineer department trains for the public works department and BE's vie eligible for appointment in its engineer brunch. A certain number of BE's are unmaily sent for practical training to that department and compete for an annually guaranteed post of assistant engineer. (ii) The apprentice department admits matriculates and Europeans who have passed an equivalent examination These undergo three courses (a) a two years course leading up to the sub overseer examination (b) a one and a half years' course leading up to the third grade overseer examination (c) a one and a half years' practical training leading up to examination for the certificate of foreman mechanic or of foreman mechanic and sub-engineer The sub-overseer course is also taught in the smaller techni cal schools and the two schools of engineering. The latter also teach the courses designated (b) and (c) above. The examinations are conducted by the joint board of technical examinations In future the overseer examination will be divided into two branches-that of civil engineering and that of mechanical and electrical engineering Classes for this latter branch have been started at Sibpur and Dacca (iii) Though provision is still lacking for instruction up to the degree in mining engineering a two years course in mining is open to those who have passed the sub overseer examination. This however together with the classes in the mining districts will be more con veniently described in the chapter on technical and industrial education

(ir) A department of functorial chemistry was opened in 1010 and Mr. R. N. Sen. M. Se. (Leeds University), was placed in charge. The class does not seem to have attracted many students. (c) In 1008 short courses were or cred to selected telegraphists for training as sub-assistant superintendents of telegraphs. (c) In 1007 a motor driver mechanic class was opened but closed after three years as sufficient opportunities for training presented themselves in the local workshops.

The changes in courses have necessitated some changes in the staff the most important of which are the abolition of the staff of the agricultural department (now di continued) and the addition of the professor of functorial chemistry and four demonstrators in various subjects

Throughout the quinquennum the question has been debated of the temoval of the college from its present unhealthy site at Sti pur—a river site on the Hooghly which would be of great value for port and commercial pur poses. It was at first decided to transfer the institution to Ranch. But criticisms were advanced granst the idea of locating branches of technical education at a place so far removed from industrial centers. The matter was finally referred eaves the report by government to a large and representative committee for consideration and though a definite decision has not yet been arrived at the probabilities now are that in accordance with the general tenor of the recommendations of the committee a technological institute will be established in Calcutt the inning clase is will be moved to Assimol and the civil engineering department to a residential college in the mofusul most likely in connection with the Direct University.

334 For an understanding of the organisation of schools in these two provinces it is necessary to explain that they consist of technical schools which teach the sub overseer course and enqueering schools which teach both the sub overseer the overseer and the foreman mechanics certificate course and are in fact replicas of the apprentice department at Sibpur Thie entrance qualification to the sub overseer course is the matriculation or the B final evaluation or the B final evaluation or the B final state of the sub overseer course occupies two jears. But a boy who has passed the B final had already gone through some simple technical instruction and was permitted to enter straight into the second year. At the end of the quanquennum this was changed for reasons presently to be explained and B class pupils are now admitted only to the first year class. Those who have successfully completed the sub overseer course can obtain service under government local bodies or private persons or they can proceed to one of the engineering schools or to Sibpur and there better their prespects by undergoing the overseer course for a vear and also the foreman

30 The schools of engineering are the Bihar School at Patna and it e Abaanulla School at Dace They are well found schools under Furoperan engineers and teach the sub overseer overseer and foremen mechanics certificate courses. They also contain survey classes for the training of amins. The former has recently become independent of the Pitna College. It contains 188 pupils. The main departments at Dacca contain 287 pupils and there are also artisan classes, which are retily industrial. The school has been greatly improved and the staff strengthened. A hostel now provides for 108 pupils. An electric installation has been laid down which affords instruction to the pupils and lighting and fans to the Dacca Arts College the school though thus improved is said no longer to meet the needs of the province.

mechanics for a further year and a half

336 Exclusive of schools for Europeus there are also the technical schools which teach the sub overseer cours and frequently have survey arti san and other classes in addition. There are three of these in Bengal—at Burdwan at Midapore (the Maisrdal Technical School) and at Ranchi Frstern Bengal is a five such schools with 1155 pupils. All are managed by district boards save that at Burisal which was provincialised at the wish of its managers.

These engineering schools especially those of higher grade are very popular The pupils ordinarily preferred for admission were those who have read in the B classes of high schools (see paragraph 205) and those who have matriculated in a high division. The B classes however which were organised as a modern or technical side of high selools have not been an un qualified success In the first place they have proved unpopular in Bengal where in the last year only seven passed the examination. In Eastern Bengal they proved more popular and 1 195 pupils are reported to have attended them during the quinquennium But the fact that out of this number only 180 passed the examination is significant. In both provinces the classes have been badly reported upon As a rule says the inspector of Chitta only such boys as are likely to prove a certain failure in the general line obtain admission into the B classes and the result is that the few students who come to join it cut a sorry figure when they enter the sub overseer Hence the product of these classes has now fallen into some disrepute and the examining board have made proposals (since sanctioned) that among the special subjects trught engineering should be discontinued and only men suration and elementary chain surveying retained and that the privilege of admission to the second year of the sub overseer course should be withdrawn

357 The Civil Engineering College at Roorkee similarly trains engin (d) in the eers and subordinates for the United Provinces Like the Sibpur College United this institution also makes provision for technical instruction and aims at Provinces being the engineering branch of the provincial technological institute this end a department of technology was established in 1909 but the first experience has not been very encouraging. A course of sanitary engineering has been introduced in the lower subordinate class. The other departments of the college have an industrial aspect and will be described in the appropriate chapter A professor of mechanical engineering with subordinate staff was appointed in 1910 The addition of water supply extension of the work shops increase of power new chemical and electrical laboratories new photo mechanical rooms and an electric installation for lights and fans are among recent improvements Hostels have been erected and a new engineering laboratory constructed The college makes arrangement for admission of Europeans Apart from class work " says Mr de la Fosse the college is The volunteer has uniformly done well and games of all kinds and athletic sports have been cultivated with keenness and assiduity. Two new outrigged fours from Oxford should as the principal remarks give a further impetus to rowing The health and conduct of the students has been satisfactory At the Allahabad Exhibition the college organised a special court of its own which was full of interesting exhibits of its work and its relations with the world of industry

A useful development of this college though it is not strictly educational is the photo mechanical and lithographic department. This has been con siderably increased during the quinquennium and did useful work for tle Imperial Durbar at Delhi and also publishes maps etc. It is responsible for the illustrations which figure in the present volume

In the Punjab the school of engineering at Lahore was taken over by (e) in the government from the university in 1906 It was says Mr Godley in an Pinjab unsatisfactory condition at the opening of the quinquennium A committee was appointed and it was decided to remove the school from Lahore and to appoint a staff with higher engineering qualifications. At the same time the number of annual admissions was restricted to 50 and an entrance test was The committee thought that stress should be laid as at Roorkee on the practical training of the students rather than on their success in an university examination if appointments in the public works department were to be given them. Subsequently a scheme was sunctioned for a new engineering school at Rasul which should be under the charge of an assistant engineer a staff of good qualifications was appointed and the school moved into its new quarters in 1912. This change may be ranked as an important development in the history of technical and engineering education in the Drovince"

This school and likewise the classes at the Dayanand Anglo Vedic College Lahore are affiliated to the Punjab University for purposes of presenting students at the engineering certificate examinations

(f) in Burma

358 The Government School of Engineering at Insein in Burma was reorganised during the quinquennium It now contains (i) engineering and draughtsman's courses of one two or three years open to matriculates or those who have passed an equivalent examination and qualifying pupils for upper subordinates or draughtsmen in the public works department (ii) a technical high school with a three year course open to those who have passed standard VII or the middle English examination and qualifying pupils for lower subordinate posts Mr Covernton says " New buildings and shops with new fittings and machinery have been provided the school enjoys excel lent accommodation and a fine compound the staff has been increased and is well paid-and the numbers in attendance have fallen from sixty three to thirty five The institution avoided by the Burman and the European has served as a refuge for domiciled Indians and immigrants of very mediocre educational attainments from the Punjab and other Indian provinces

Among the main causes for this want of success he suggests the tem perament and circumstances of the Burman the absence of sufficiently attrac tive prospects the length and expensiveness of the course and the alleged lack of adequate stipends—especially for Burmans It is proposed to place the school under a public works officer of the imperial service. The Lieutenant Governor observes in the resolution that the reorganisation has not achieved the success anticipated for it states that a change has already been effected in its management and hopes that it may yet justify its existence

college at Jubbulpore in the Central Provinces It was unsuccessful and has

309 There was previously a civil engineering class attached to the arts

(q) in the Central Provinces

now been abolished Instead a school for the instruction of civil and mechanical engineers is in course of erection at Nagpur 360 Survey schools are frequently attached to technical schools Survey schools

training in these institutions is for general purposes The Survey of India trains its own men Officers of the provincial service have been trained for the first year of their service under a senior provincial officer at Dehra Dun instruction being given in triangulation plane-tabling traversing levelling computing drawing and printing completion of this course they are posted to parties where they continue their training and at the same time undertake a certain amount of useful work Each topographical circle has had a senior provincial officer holding the appointment of survey instructor in the circle. The upper subordinates and a certain number of the lower subordinates have before being posted to parties been trained for a year by the instructor of their circle. The remain der of the lower subordinates have been posted direct to parties and have been trained entirely in their party

V -A griculture

Administrative changes

361 The dawn of the new era in agricultural education as a result of the progressive policy of the Government of India with reference to agriculture was adumbrated in the fifth quinquennial review The measure of the pro gress made during the past quinquennium is the extent to which the proposals outlined have materialised and the efforts to supply a higher agricultural education have been successful in attracting students desirous of such a Before proceeding to a detailed examination of statistics by provinces it may be convenient to indicate the administrative and other changes which have taken place in the department of agriculture since the last quinquennial report was issued. The post of inspector general of agri culture in India ceased to exist as a separate appointment from the 1st April 1912 The functions of the inspector general of agriculture in India are now exercised by the director of the Agricultural Research Institute and principal of the Agricultural College Pusa under the title of Agri cultural Adviser to the Government of India and Director of the Agri cultural Research Institute Pusa He maintains the same position with

respect to Local Governments as was held by the inspector general of agriculture in India and his duties remain as before except that he also diss charges the duties of director of the Agricultural Research Institute Pusa In the provinces a mycologist and an entomologist have during the quin quennium been added to the staff of the Madras department of agriculture. The total number of officers in the Indian agricultural service is now 6t as against 55 at the end of the last quinquennium. There an now over 90 experimental farms and demonstration plots established in various parts of the country in addition to botanical gardens and cattle farrs controlled by the agricultural department. As a result of the development of the scheme for higher agricultural education competent subordinate striffs have been recruited in all provinces for the supervision of farms and demonstration plots and to assist in the teaching and research at the Pusa Research Institute and in the provincial colleges.

362 The proposal to establish an agricultural college in Burma has been Colleges postponed for the present owing to the financial postton of the province. It is also considered preferable in the present state of general education in the province to confine teaching in agricultural source and practice to short vernacular practical courses for actual cultivators. There are no agricultural colleges in Assam or Bengal. The Sabour Agricultural College which was formerly under the Government of Bengal has owing to the recent territorial changes come under the administration of the Government of Bihar and Orissa. But it receives students from the three provinces of Bengal Bihar and Orissa and Assam and trains men for the departments of agriculture in these three provinces.

363 The Pusa Agricultural College and Research Institute was opened (i) The Pi sa for students in July 1908 The teaching provided is of two kinds (1) post Agricultural graduate courses for two years in agriculture chemistry botany mycology College and bacteriology and for one year in entomology and (2) special courses for short periods in subjects such as the management of cattle poultry fruit growing and lac and silk production The post graduate courses are pri marily intended for graduates of provincial colleges who wish to specialise in a particular subject with a view to obtaining assistant professorships or lecturerships in provincial institutions The members taking these courses will therefore always be to a large extent limited by the number of appoint ments available as provincial directors naturally only send students for whom they can guarantee appointments while this source of recruitment will annually decrease as provincial departments become fully equipped It is gratifying however to find that private students are now applying for admission to the post graduate courses and though the total number of such private students is so far small their presence is an indication of a genuine demand for higher scientific training for agricultural purposes

Apart from the prescribed post graduate courses in special subjects and in order to meet the definite requirements of provincial departments which are not in a position to train their own men for such appointments as assistant director farm manager and the like post graduate students have been admitted to a general course including a period of study in each of the chief sections as well as practical work on the farm. It has however been held by the board of agriculture that ordinarily students requiring a practical agricultural truining are lest provided for in the six provincial colleges and now that these are all in full working order it is not expected that there will be much further demand for the post graduate general course

The instructive staff consists of the director and principal of the college when is also agricultural adviser to the Government of India an agricultural chemist a mycologist an entomologist an economic botanist an agricultural bacteriologist and a pathological entomologist. All these are imperred officers

Students are trained in one or other of the following sections of agricul tural science —

Agricultural chemistry - Methods and principles of advanced re search Uycology —(a) Revisionary course in plant anatomy and physiology (b) general mycology and (c) pathological mycology

Economic entomology -(The course in this subject is for one year)

Econoric botany—(a) Physiology of plants (b) the improvement of plants (c) the principles of Indian fruit growing (b) practical application of the principles of plant improvement and a general knowledge of the planting cultivation and improvement of plants which are of special economic importance in their respective provinces

Agriculture —(a) A course in general agriculture and (b) special in struction in the management of field and garden crops and or chards and in the use of agricultural machinery tools and implements and in cattle sheep and poultry breeding and management.

Agricultural bacteriology—(1) A complete two years course of training in bacteriological technique as applied to soil bacteria (2) A course in special methods of biological analysis of soils (to be included in course in (1) and specially intended for agricultural chemists who may not have time to take the full course) (3) A course in bacterial diseases of plants to be taken up in the second year by such students as may show special aptitude for this line of research

Short courses of instruction are also given in cat le breeding and poultry management fruit culture lac and silk production and in apiculture

In 1908 09 the year in which the college was opened the number of students enrolled in the post graduate course was nineteen. It is now seven the number of those who have successfully completed the course during the four years is nine. The students taking short courses have numbered during the four years 2 49 59 and 33 respectively and all these have successfully completed their courses

The reduction in the number attending the post graduate courses is due to the fact that when the mistuite opened for teaching provinces end up for a revisionary course men who had already obtained some training in the agricultural institutions which then existed so as to obtain assistants for the colleges which had just been opened. The demand for men has also up to the present been so great that provincial colleges have at once given appoint ments to the best of their students without insisting on any post graduate course and have irrequently writhdrawn students deputed to Pusa before the completion of the course for which they were deputed. In addition as the provincial colleges have not been open long the supply of graduates for whom the post graduate courses are intended has been very limited. Even tually it may be possible to insist on a post graduate course at Pusa as a condition of appointment to the higher grades of the provincial agricultural service. The total expenditure has risen from Rs. 259 823 in 1907 08 to Rs. 319 860 in 1011 12

(11) TI e Poona College.

364 The Poona Agricultural College as distinct from the Poona College of Science was constituted as a separate institution on the 1st January 1903 The college remained in its temporary quarters during the whole of 1908 and the early months of 1909 while the new college buildings were under construction During the jear 1911 12 the college was fully accommodated in its new buildings. The main college block was opened by His Excellency Sir George Clarke (now Lord Sydenham) on July 18th, 1911. The teaching staff of the Poona College of Agriculture consists of professors of chemistry agriculture and botany and zoology with 11 assistant professors lecturers and demonstrators. The college is affiliated to the Bombay University which confers a degree of bachelor of agriculture (B.Ag.) on the basis of the three years course of instruction at the College of Agriculture.

The number of students varied but little during the quinquennium and is now 104 as it was in 1907 08. Fifteen of these are studying a short course which was first started in 1909 is intended for farmers and land-owners sons

and offers a practical training in the best methods of agriculture applicable to the province. The number of those who have passed the B Ag examina tion during the quinquennium is 134. The expenditure on the college has risen during the quinquennium from Rs. 23 036 to Ps. 94 500.

365 The Agricultural College at Coimbatore was opened on the 14th (iii) The Coim July 1909 by His Excellency Sir Arthur Liwley Governor of Madris Tle batore College European staff consists of a principal and professor of agriculture professors of agricultural chemistry botany mycology and entomology and a full establishment of assistant professors and lecturer. The Virdras college has been more successful than any other in India in obtaining a large proportion of students of the desired class about half being the sons of land owners whose object is to acquire a knowledge of practical furning which will

enable them to manage their own properties to better advantage

The number of students has risen from 18 to 50. The number of those
who have successfully completed the 3rd year course was 34 during the quin
quennium. The expenditure has risen from Rs. 68 453 to Rs. 99 975

366 Up to 1909 the only provincial institution which provided a higher (iv) The Bihar agricultural education for the present provinces of Bengal Bihar and Orissa and Orissa and Assam was the Sibpur Lingineering College in view of the opening College at of the agricultural college at Sabour it was arranged that the agricultural Sabour colleges at Sibpur should be finally discontinued in 1909 Owing however to delay in construction the opening of the Sabour college had to be post poned for a year and there was a consequent hintus. To bridge this and to secure some continuity in agricultural truining students from Bengal were given scholarships to enable them to study at the Poon Cawapore and Nagpur colleges of agricultural Vaer 1909 10 the Sabour college was practically ready to commence work and it was opened on the 3rd Aoventher 1910 by His Honour the Lieutenant Governor

The staff of the college consists of a professor of economic botany who is also principal of the college a profe so of a gricultural chemistry and a professor of agriculture with a full staff of assistant professors and lecturers. The subjects taught are agriculture chemistry botany mycology entomology physics mathematics and veterinary science. In addition to the three years course qualifying for the college diploma a short is, months course in practical and agriculture is also given. This course is for the benefit of land owners and cultivators sons and is confined to this class. It is strictly practical and the lectures are given in the vernaculty.

The number of students admitted during the first year (1910 11) was 21. This however did not count towards the diploma course which began from June 1911 In 1911 12 there were 16 students all of whom passed the numual extination in March and were promoted to the second year class It may be noted that 41 applications were received for admission to the college in June 1912. Only 11 of the applicants joined the remainder withdrew their applications on realising that a government appointment did not

necessarily follow the acquisition of the college diploma

of Bengal

numerical strength

The expenditure on the college during 1910 11 amounted to Rs 66 094 and that for 1911 12 to Rs 82 000

367 Although the Cympore College and Research Laboratories were not (e) The Caura formally opened till the 11th November 1911 work had been carried on for pore College some time previously in the building and teaching had been greatly facilitated by the excellent laboratories. In 1907 69 the instructional staff had been brought almost to its full strength consisting as it did of professors of agriculture economic botany and agricultural chemistry with a full staff of lecturers and assistant professors. The first diploma examination was held during the session 1908 69 and in this vear the college reached its full

Whilst no difficulty is experienced in filling the college with students constant regret is expressed that the arrival land holders' associations are slow to send students for training as land agents even although such candidates are admitted on preferential terms. But the general quality of the

students it is reported tends to improve and it is hoped that the propor tion of students connected with the land may increase

The college is under the administration of a governing body including a non-official element. This arrangement seems to work satisfactorily

The staff of the college consists of 3 professors 1 assistant professor and J lecturers

The number of students has riven from 103 to 122 and attained 153 in 1908

During the quinquennium 145 students have successfully complited the course

The expenditure has risen from Rs 63 329 to Rs 77 800

365 During the greater part of the quinquennum the Nagpur College has suffered from inadequate laborators, accommodation and a slight reatric tion of teaching staff. Teaching however was carried on regularly. There has been some difficulty in obtaining local students. The terms of admission were relaxed and it was proposed to admit such non matriculates—the sons of cultivators—as could pass an entrance test equivalent to the matriculation standard. This scheme did not however prope a success. It is noted that the agriculturists of the Central Provinces do not appear to take kindly to higher agricultural education.

There are three professors on the college staff a professor of agriculture of agricultural chemistry and of economic botany. There is all on staff of assistant professors and lecturers. The enrolment has increased from 23 to 59 and 35 students have successfully completed the 3rd year course. The expenditure has risen from Rs. 24 928 to Rs. 38 860

369 Although the Lyallpur College was not opened till September 1903 the anticipation of its foundation created a large amount of local interest No le sthan 574 applications for admission were received and of these a fair proportion came from land-owners and others whose main object was to acquire a scientific knowledge of agriculture. This preliminary enthusiasm was however damped by the decision to restrict the number of admissions in the first year to 16 as the teaching staff had not been fully recruited and trained in its duties. Ten open scholar-hips two in each division each of the value of Rs 10 per mensem were founded by the Local Government Salub Mohan Lat founded a scholarship of Rs 12 per mensem in memory of the late Sir Denzil Ibbetson and Chowdhry Sultan Ahmed extra assistant commissioner endowed a silver medal to be named the "Sir James Wilson" The fees were raised to make the cost of the diploma equal to that of a B A degree The boarding house fees were based on such a scale as to cover all expenses This clear indication that the college course was not to be used as an easy and comparatively cheap road to government employ ment had its effect in a large decrease in applications for admission director of agriculture in his report for 1910 11 remarks that "the college is not popular with the classes we wish to attract nor indeed with any class It will not become popular until either the educated members of the agricultural classes begin to place an independent career above government service or government holds out special prospects to those who obtain the diploma of L Ag By offering the latter temptation we could fill the college but we should petrify its spirit

A short practical vernacular course was started in October 1912 and the financial commissioner sanctioned the preparation of schemes for the improved farming of the large estates under the court of wards. Students who have obtained the diploma will be available for employment as agricultural experts on these estates.

The college staff consists of a professor of agricultural character and of economic betury—each with an assistant and an assistant professor of entomology Lectures are also given in physics in thematics land revenue and surveying agricultural engineering and veterinary science—the last two subjects by a member of the public works department and by the superintendent civil veterinary department

When the college opened in 1908 it had 16 students in 1910 11 it had fo and now it has 49 Eight students have passed the 3rd year course The expenditure has risen from Rs 57 561 in 1908-09 to Rs 64 640

(ι i) Tl e λ ag pur College

(vii) Tl e Lyallpar College 370 Experience is already showing that the courses originally prescribed Syllabus in in the standard curriculum for provincial agricultural colleges, as I had down agricultural by the board of agricultura and unended in 1908 are in most cases not colleges suited to the class of students that the colleges are intended for Provincial reports are almost unrunious in tone. In Bombry while the percentage of passes in the examination is high the question of the utility of and demand for the course is obscured by its being made a road to a degree. College graduates or the subordinate staff have with very few exceptions continued to show no power to develop any original turn. In Madras there is noted in graduates a lack of intelligent inquisitiveness and power of independent thought. Similarly in the Punjab there is too much craim and too little power of preciacla application.

The division of the course into two parts and its extension to four years has been proposed and there is no doubt that if the full course as prescribed by the board of agriculture is to be properly taught such an extension is absolutely necessary in every province. The Combatore College has already arranged for a preliminary two years course which is to be agricultural with lectures on popular science but no laboratory work. If the course of popular science is to receive an agricultural bias by the use of the phenomena of agriculture as a framework for the teaching of elementary science the experiment is likely to give very valuable results from the point of view of rural secondary education.

On a general review of what has been achieved during the quinquennium in my perhips be said that so far the most promising line of development in connection with the colleges is to be found in the extension of practical in struction which may vary from the mere demonstration to cultivators on their own land up to a regular course for students on the farm attached to a college

For some time to come as is to a large extent the case in Great Britain the prospect of employment in the higher grades of the agricultural service will limit recruitment for the diploma course though ultimately there is hope that the colleges will attract genuine students for agricultural science sake and the wealther class of land owner who will prefer a science course bearing on his lifes work to a purely literary one

371 In 1910 the Government of India accepted the proposal of the board The agriculture of agriculture that passed students should be entitled licentiates of agricul al degree tire (LAg) This degree will be re agricul al all official publications. It has been left to each Local Government to decide what classes of appointment government service should be thrown open to candidates, who have obtained

a degree from one of the agricultural colleges

In this connection the question of the affiliation of agricultural colleges to the provincial universities was also considered. The conclusions arrived at are contained in the following extract from the Government of India resolution of the 4th January 1910.—

The Government of India did not consider that such affiliation was necessary at present. They thought it preferable that each agricultural college should be controlled by the director of agriculture with the advice of the director of public instruction. With the exception of the Govern ment of Bombay all Local Governments and Administrations agree that affilia tion is not desirable. In Bombay the circumstances are exceptional. The Poona College of Science has long been affiliated to the Bombay University for the purposes of examination for the existing LAg degree and with the full concurrence of the Government of India it has been decided to continue an arrangement which has worked admirably in the past. But in all other provinces the principle may be accepted that the colleges should not apply for affiliation to the provincial university and that for the present at any rate they should remain under the control of the directors of agriculture The only further question is how far the director of public instruction should be associated in the control of the college. The Government of Madras are impressed by the risk that a system of dual control may lead to friction and want of continuity of policy and they urge that while the director of agriculture should always be at liberty to consult the director of

public instruction no rule requiring him to do so should be laid down. The Government of India have no wish in such a matter to restrict the discretion of Local Governments. But the question of the best reams of co-ordinating agricultural education with general education is likely to become increasingly important in the future and their would draw attention to the great importance of arranging to keep the agricultural and educational departments in close touch with one another in such manner as may be most suitable in each province.

Text-books

- 372 The following text books have been published during the quinquen
 - (1) Indian Agriculture by the late A G Mukerji MR.AS (2nd edition)
 - (2) First Principles of Agriculture by F Smith B Sc. F.H.A S. deputy director of agriculture Bengal
 - (3) Indian Insect Life by Lefroy and Howlett

been issued by the various departments of agriculture

- (4) Wheat in India by Albert and Gabrielle Howard.
- (a) A Hand book of Agriculture for Burma (in English and Burmese)

revised by the director of agriculture Burma.

In addition many leaflets and bulletins of an educational nature have

College Libraries

373 An important educative factor which has accompanied the expansion of facilities for higher agricultural education has been the provision of well-equipped hibraries. At Pina there is an excellent library of some 10 000 rolumes containing standard works on all branches of agricultural and cognate sciences. It is largely used by the staff and by the students while arrangements have also been made by which books are issued from the library to scientific workers in the provinces whether connected with agricultural or with other scientific investigations. Advantage is freely taken of this arrangement. Similarly every provincial college and department has a well-equipped library which is kept up to date by the addition of any new publication of importance and these are also as general rule available for any scientific worker in the province. At Cawapore a combined library for the agricultural college and the technological institute is under construction.

Pural educa tion

374 The broad principles upon which the agricultural educat on of the cultivating masses has been based are enunciated in paragraphs and and 555 of the last review The past quinquennium has been marked by a conjistent effort in all provinces to get into touch by educative methods with the actual cultivator and the sons of cultivators Thus in Bihar and Orissa a short six months course in practical agriculture is given at Sabour for the benefit solely of land-owners and cultivators sons. Lectures are given in the verna cular and the course which is strictly practical, is said to be popular with the people and to meet a real want. Similarly the sons of cultivators were received for practical training at the agricultural stations at Cuttick and Agricultural classes held at the Gaya Zilla School and the Bankipur Dunaraon High School however proved a failure probably because there was little likelihood of pupils returning to the land hature study has been encouraged in the guru training schools, middle English and primary schools in Orissa by the grant of medals and diplomas by the agricultural depart This is an experiment at present confined to Orissa but if successful, it will probably be extended to other divisions Again classes for the training in arboriculture of overseers sub-overseers and other subordinates of district boards are held at the Sibpur Botanical Garden Sericultural classes for the sons of bona fide silk rearers are held at Berhampur and Ray shahi Little progress has been made in promoting agricultural education in schools though a beginning has been made

Benaul enjoys the same facilities, for special courses in sericulture and arboroculture as Babra and Orissa. During 1911 P an attempt was made both in Western and Eastern Bengyl to encourage nature study in element ary schools Gardens have been uttached to a considerable number of schools seeds and simple apparatus for the illustration of the lessons have

be n provided and manuals in the vernocular prepared for the guidance of technis. It is too early to judge of the success of these measures but some encouraging reports have been received.

In is im rature study is taught in primary schools. A new course has been introduced which differentiates between urban and rural schools and aims at providing for the pupils of each an education suited to their needs. Apprentices are trained at government farms for the post of fieldmen demonstrators.

In horbbay the short course for the benefit of Ind owners and farmers sons forms an integral part of the educational scheme. There is a real dimind for this course and the number of suitable candidates tends to increase. For this course a vermicular agricultural school was established at Poona in 1910. A school building and quarters for a vermicular school have been erected at Mirpurkhas in the Thar and Parkar district. Sind where a 12 months course in agriculture for the sons of zamindars about 20 years of age will be provided. The establishment of similar schools in the Deccan southern Maritha country and Gujarti is under consideration.

In the Central Procunces short courses of practical instruction are given on the Powarkhara and Raipur farms and have met with great success. On the Raipur farm the training given is mostly in the transplanting of rice. Short courses are also given to wards and court of wards officials. The training of Lamdars to demonstrate improvements on ryots linds is one of the most important factors in the departments efficiency. The Nagpur mal plant of the soft of the training of the natural soft of the soft of the

An important branch is the training of normal teachers so as to qualify them to teach nature study. During 1908-09 twenty three normal school masters were trained at the agricultural college, the class was then disconti nied as a course of nature study was introduced into four of the normal schools.

In the United Provinces applications are occasionally received from small zamindars and others for practical training in agriculture. To meet such cases a small number have been admitted to the Campore farm to enable them to gain an acquaintance with the methods pursued The Rural Educa tion Committee has introduced into village schools a series of object lessons dealing with insect life The I'ri silkworm has been chosen as the most suit able subject. Considerable attention is given to the provision of facilities for the training of engineers and sugar boilers for sugar factories A grant was given to the owner of a factory at Pilibhit one of the conditions of which was that he should receive for training a certain number of apprentices approved by government. In addition special courses for training in sugar manufacture are from time to time organised at suitable centres Courses of training in horticulture have been organised at I ucknow and Saharanpur The farms are always willing to receive and train farm labourers if they are sent Wages are paid but few avail themselves of the opportunity Courses for cultivators at experimental farms have not been tried systematically owing to the fear that cultivators are likely to be more impressed by experi mental failures than by experimental successes

In the Punjab lower agricultural education is at present limited to classes for instruction in the use of respers and improved implements. Short practical courses have also been started at Lyallpur for the sons of bond fide cultivators.

In Burma in the absence of an agricultural college a scheme has been senctioned for the creation of a staff of district vernoular agriculturists recruited mainly from the settlement and land records departments to serves intermediatives between the agricultural department and co operative credit societies as well as the public generally Chases for the training

of this staff were also open to the general public and a considerable number of the sons of bond fide cultivators availed themselves of them. School gar dens are extending in Burma and a manual of school gardening has been prepared. The agricultural department gives what assistance it can in the organising of these schools. But it is doubtful if much progress can be made till facilities are provided for the systematic training of normal school pupils in nature study and the elements of agriculture. Anything so far achieved has been by special arrangement.

VI -Forestry

General organ 1sation

- 375 Forests covering approximately a quarter of the Indian Empire are under the control of the forest officers of British India and the native States and the steady growth of this wast area is accompanied by the ever increasing need for its more detailed and scientific management. It is not surprising therefore that the period under review has been one of almost exceptional development in education in forestry. The officers who receive their forest education in India are divided into three main classes.
 - (a) deputy rangers, foresters and forest guards who constitute the lowest grades of supervising officers.
 - (b) rangers, and
 - (c) members of the provincial forest service

Training of deputy rangers and foresters 376 For the first class the training prior to 1907, was provided by vernacular classes at the Dehra Dun and Tharrawaddy forest schools but in that year these classes at Dehra Dun were abolished, and arrangements have since been made in all the principal provinces for vernacular instruction to be provided in provincial classes or schools subordinates from Bihar and Orissa being for the present trained at the Kurseong Forest School in Bengal

Training of

937 As regards rangers, those for the Burma service received till 1907 a vernacular course at Tharrawaddy, and those for the rest of Indua an English course at Dehra Dun, the period of training in each case being two years In 1908 the instruction at the Burma school was improved and given in English, while in 1912 the demands on Dehra were relieved by the constitution of a forest college at Combatore, which will ultimately provide all the requisite instruction for candidates from southern India

Training of provincial officers

378 Still greater progress has been made in connection with the provincial service in consequence of an arrangement made in 1969 by which the members of this service who had previously been selected exclusively from the lower staff, were in future to be selected to a large extent from cardidates for direct appointment. In 1907 a third year course (in extension of the two years' rangers' course) was provided at Dehra Dun for such candidates, and in 1912 an entirely separate two years' course for provincial officers was substituted for the former combined arrangement.

379 These changes are the results of a policy deliberately undertaken by the government in 1906 for the improvement of scientific and technical education in forestry. As a consequence of this policy the old vernacular classes

at Dehra Dun were abolished and the school raised to the status of a college

The Pesearch Institute and At the same time provision was made for a research institute to be worked in conjunction with and under the same management as the college. The conjunction of the college and institute has been productive of excellent results and owing largely to the establishment of the latter, it is now possible to give in this country an education in forestry, which is of a much higher class than thit obtainable formerly, and which may in time approximate to that obtainable in Europe.

280 The institution known as the Research Institute and College at Debra Din is under the administrative control of the inspector general of forests who is assisted by the board of forestry, which meets treenmilly. The board of control referred to in the last review was abolished with effect from 1913. The staff consists of the president the research officers, and the instructions. The president who is usually a conservator, is charged with the general administration of both the institute and college, but is not connected with any

Institute and College at Dehra Dun particular branch of research or study. The research officers comprise a spluculturist a torest botanist a forest economist a forest zoologist and a torest chemist. The post of chemist is at present in abeyance. The research efficiency denote the greater portion of their time to research work but during the rainy season they are also required to give lectures in their special subjects to the provincial service class. Almost up to the close of the period under review there were only four instructors all members of the provincial service but partly because this arrangement proved to be not entirely satisfactory and partly lowing to the introduction of the separate two years course of training for the provincial service, the improvement of the introduction of the separate two years course of training for the provincial service. Their principal duties in addition to class work at headquarters are the supervision of the practical training in the forest and the maintenance of discipline.

The students fall into the following categories -

- (i) Private students usually men who hope on obtaining the college certificate to secure state or other employment
- (ii) Government probationary students who may be stipendiary or non stipendiary and who have been selected by Local Govern ments for employment subject to their completing the course of training satisfactorily
- (iii) Students deputed by native (and o casionally foreign) states and British colonies
- (10) Students already in government service usually forest subordinates

The numbers in the rangers and in the provincial service classes were in 1907 respectively 45 and 7 in 1912 they were 55 and 15. Of the students in 1912 only one fell under class (i) none were non stipendiary government students. Seven fell under class (ii) and the remainder were government stipendiary students. Twenty were Europeans or of the domiciled community against six in 1907 one was a Siamese the rest were Indians.

All students except those already in government service must ordinarily between the ages of 18 and 25 on admission to the college and must have undergone a period of practical training in the forests of the province from which they come Rangers deputed for training must be under 30 years of age and subordinates of lower rank must have completed two years service and be under the age of 25.

Candidates for both courses must have a knowledge of English fully adequate to follow the course of instruction For the provincial service course they are expected to know what is usually included in the term lower mathematics. Local Governments may prescribe any other educational qualifications considered necessary and the Government of India have in this connection emphasised the importance of at least a preliminary education in science. Candidates for the rangers course must ordinarily have passed the matriculation or its equivalents such as the European high school examination and the school leaving certificate or a higher university standard

The course of study (including vacations) extends over a period of two years of which almost half is spent in camp. The teaching of late years has been more thorough more comprehensive and more up to drue than in the past though the classes have perhaps been rather too large to permit of that individual attention to the students which is so essential if the best results are to be obtained.

The subjects taught in the provincial service course are as follows -

- (1) Forestry including sylviculture utilization and forest working plans both theoretical and practical and forest mensuration
- (2) Physical science including chemistry physics physiography geology mineralogy and soils

- (3) Botany, both theoretical and practical, including the collection and preservation of plants
- (4) Zoology—the classification of animals and the study of useful and dangerous species, especially of insects, and the collection and
- preservation of specimens
 (5) Drawing, surveying, and estimating, as required for forest officers
- (6) Forest engineering, theoretical and practical
- (7) Forest law—the elements of criminal law, and departmental organization
- (8) Forest accounts and procedure

The curriculum for the rangers' course is similar, but less advanced Mineralogy and zoology are not taught, but instruction in arithmetic, elementary algebra, and mensuration, with special reference to their application to forest questions, is included

Perioducal and final examinations are held, the final examination counting for half the total number of examination marks allotted Marks are also
given for scientific collections, survey drawings, conduct, discipline, and
application The nature of the certificate awarded is determined by the total
number of marks obtained

Pass certificates are given in the provincial service class on 60 or more pt. cent of the marks in each major subject and 60 per cent of the total, honours certificates on 60 per cent in each major subject and 75 per cent of the total

In the rangers' course, a lower standard certificate is given for pass marks in each major subject and 45 per cent of the total a higher standard on the same and 60 per cent of the total, bonours for 50 per cent in each subject and 70 per cent of the total

The minimum cost of training, including subsistence money, uniform, books, camp outfit, and travelling expenses (exclusive of journeys by rail or steamer), may be estimated at Rs 80 to Rs 100 per mensem for the provincial service students and at Rs 50 to Rs 60 per mensem for the rangers' class, the cost for a European being somewhat higher than for an Indian.

The award of stipends is limited to Rs 2,400 and Rs 1,200 for the pronouncial service and rangers courses respectively, the whole or part of which may be paid in a lump sum on the production by the student of such certificate as may have been agreed upon The expenditure on stipends has riven from Rs 51515 in 1907 to Rs 93 354 in 1912, and totals nearly four lakhs for the quinquennum

The total expenditure under all forest heads incurred on the Forest 'Institute and College has risen from Rs 1,65,158 in 1907 to Rs 2,62,626 in 1912

Rangers' class

In the rangers class 33 appeared at the examination in 1907, and 52 in 1912. In the former year, two failed and one honours certificate was awarded, in the latter, one failed and eight honours entificates were awarded. The provincial service examination was first held in 1909-10, when all six candidates massed, in 1912, all fifteen candidates assessed.

The Burma Forest School

when all six candidates passed, in 1912, all fifteen candidates passed
381 The Burma Forest School was established in 1899 at Tharrawaddy,
mainly because the vernacular course of instruction given in Urdu at Dehra
Dun could not be followed by candidates from Burma In 1908, following
on a suggestion made by the Government of India an English course was
started, and as Tharrawaddy was considered an unsuitable locality, the
school was in 1910, moved to Pryimana The rules regulating the construction of and studies and discipline at the Burma school closely follow
those for the Forest College at Dehra. The chief conservator replaces the
inspector general of forests is administrative officer and is assisted by a
board consisting of the director of public instruction two conservators and
the director of the school, who occupies a position analogous to that of the
president at Dehra Dun. The staff assisting the director are two instructors
(usually one from the imperial and one from the provincial service), a verna

cular instructor belonging to the provincial service and an assistant verna cular instructor and curator who is usually a ringer

The courses of instruction last 231 months. The syllahus for the English course is the same as that for the rangers class at Dehra Dun but excludes arithmetic. The vernacular course is similar but more elementary, and includes arithmetic. The system of examination and marking is as at Dehra Dun. Pass and honours certificates are awarded the former to students who obtain over 50 per cent of the total marks including 50 per cent of the marks allotted to each of the subjects—forestry botany surveying and engineering and the latter to students obtaining over 75 per cent of the total marks and 50 per cent in each subject.

The number of students admitted yearly is decided by the amount of accommodition available. The maximum number that can be trained at one time is 60–10 in the English and 20 in the vernacular course of each year. There are only two categories of student. (a) stipendiary students and (b) students already in government service. For upper (ie English) class students the rules of admission both as regards age educational qualification and preliminary practical training are similar in almost all respects to those for the corresponding categories of students taking the rangers course at Dehira Dun. Failing the production of a certificate of having passed the VIth standard examination candidates for the lower class are required to pass a simple entrance examination.

382 As the Combatore College was not opened till the 1st July 1912 it is The Comba unnecessary to say more than that it provides instruction to candidates for fore Torest appointment as rangers and that the course of instruction and the rules for College admission are almost identical with those at Dehra Dun. It has been established with the object of training the ranger staff for Southern India thereby relieving the pressure on the parent institution

383 Provincial schools and classes have now been established in almost Pronnead all provinces with the object of improving the qualifications of the lower eclosis and ranks of the subordinate establishment : e deputy rangers foresters and training forest guards. The scope of the instruction given varies slightly but is in classes the main practical. A statement of these schools and classes is given in appendix XXII. They are ten in number and train rangers deputy rangers and guards.

VII -Veterinary science

384 The great development which took place in the agricultural admin Institutions instration after 1905 was accompanied by a similar development in veterinary matters. The civil veterinary department having been releved of the greater part of the work connected with horses and mules in 1903 had become free to devote itself to a more purely agricultural sphere of duty and it shared with the agricultural department in the developments initiated in 1905. The changes then effected were mainly in the direction of an increase of striff the number recruited in this country rising from 405 in 1904 to some 911 officials in 1911. 12. As the demand for veterinary education in India is almost entrely comined to candidates for the public service the increased recruitment led to a largely increased demand for veterinary education. To meet this demand the existing colleges were considerably reorganised and their equipment much improved. Information on this point up to 1907 was furnished in the last quinquennual review. Progress since 1907 has naturally been slower but as the details given below for each college show the improvement both in organisation and equipment has continued.

The following are the institutions at present existing

- (1) Punjab Vetermary College Lahore
- (2) Bombay Veterinary College Parel Bombay
- (3) Bengal Vetermary College Belgachia Calcutta
- (4) Madras Veterinary College Vepers Madras
- (5) Burma Veterinary School Insein

385 The number of veterinary graduates who passed out from the veterinary colleges during the quinquennium and the number of students who attended during 1911 12 together with corresponding figures for the previous quinquennium and for 1906-07 are given below—

		Number of students sa- tend ng daring 1900-0"	Number of students at tending during 1911 12.	To al number of graduates passed out during the years 190°—190	To al number of gradus es passed out during the years 190"—1912
Punjab		259	196	209	324
Bombay		111	5	59	107
Bengal		104	128	Gə	154
Madras		190	əl	29 in 2 years	.aG
	_				
	TOTAL	561	458	363	661

Whilst the number of graduates who have passed out from the colleges during the quinquennium has very greatly increased there has been a considerable falling off in the number of students attending the colleges More care has been exercised in selecting candidates for admission to the colleges and great difficulty has been experienced in obtaining students who possess the educa tional qualifications required. In spite of the great increase in the number of graduates the demand for qualified veterinary assistants and for the higher grades of provincial officers such as deputy superintendents and veterinary inspectors continues to exceed the supply There is not at present any institution corresponding to the agricultural institution at Pusa where the highest class of veterinary instruction can be given and until such instruction is provided it will be difficult to procure in India a class of men suited to fill the higher posts of the department. A beginning has however been made in making this higher class of instruction available and post graduate courses have as stated above been instituted at the Punjab Bombay and Bengal veterinary colleges The following table compares the existing strength of the subordinate veterinary staff in each proving with the staff which has been sanctioned -

	Existing Staff			SANCE ONED STAYS		
Province	Deputy Superin tendents.	Veterioary Inspectors.	Ve erma y Assistanta.	Deputy Superm tendents.	Ve ermary Inspectors.	Ve enmry Assistants
Madras Bombay (including © ad)	1 8 6	3 15	66 55 61)	3 8	15 24	132 215
Bengal Bihar and Orusta Assam	-	5	62}	11	- 3	\$10
United Provinces		16	140	•	~0 4	10
Punjab Burma Central Provinces and Berar North West Front or Province	-	12* 6 2	118 90	5	13 8	1_0
Pajputana Raluchistan		1	3		1	3
TOTAL	15	°0	815	•9	164	1,504

Individual institutions 386 The Burma Veterinary School deals with a class of students outside the reach of the Indian colleges and the Punjah Veterinary College with a lurge number of military students. The bulk of the instruction at the Punjah Veterinary College and the whole of that at the Burma Veterinary School is in the vernacular. In the other institutions the reading is in English. The course in all the colleges extends over a period of three years and successful students obtain a diploma. None of the colleges is affiliated to a university but they are all controlled by the Local Government concerned through the agency of the agricultural department. The professors at the various colleges are drawn from the civil veterinary department and are helped by trained Indian assistants. The whole staff is ordinarily engaged on teaching and demonstration but each college is equipped with laboratories which are used

^{*}One laboratory assistant attached to the Insem School.

not only for demonstration but also for purposes of diagnosis and research. The courses of instruction at the various institutions and particulars of the teaching staff employed are given below.

387 The Punjab college is still the largest of all the veterinary colleges Punjab The riverage number of students attending the college during the quin Vetermary quennium was 238 and the verage number who graduated 65. The additions College which were made to the buildings during the quinquennum consisted of six stalls and a post mortem room erected in the segregation ward. As it was found that the classes had outgrown the capacity of the staff two imperial officers have recently been added to the latter a post graduate professor and a professor of puthology and parasitology in addition to four assistant professors and three demonstrators. The sphere of work of the research labora tory attached to the college has been largely extended

388 During the quinquennum the new Bombay college building one Bombay of the finest and best in India was completed and occupied as were Veternary viso a hostel with recommodation for 76 students and quarters for College Indian professors. The pharmacy was extended and the post morten room improved. A new cattle operation shed was built and the dog ward reconstructed. The staff of the college was recently reorganised and an assistant professor added to it. Provision has also been made for holding a post griduate course. The library is reputed to be thoroughly up to date. The work at the patho bacterological laboratory has greatly increased and the laboratory has been fully used for diagnostic purposes and minor research. Microscopes have been purchased for the pathology and histology classes and many new spenimens have been added to the college during the quinquen num was 101 and the average number of students who attended the college during the quinquen num was 101 and the average number who graduated 21

389 At the beginning of the quinquennum a new hostel with quarters Bengol for accommodating 156 students was opened in Colcutta A post morter Veterany room, hospital surgeons quarters quarters for married and unmarried over College seers have been provided and the laboratory accommodation has been extended 1) the addition of a room for photo memography and a dark room A private hospital for students and a football and cricket ground have also been added and the services of a trainer and gymnasium instructor have been provided. The work in the reservch laboratory has included the examination of and report on pathological specimens and blood slides the preparation of a quantity of normal sterile horse serum the bacteriological examination of samples of bone meal and some work on the treatment of sura. A postgriding course has been instituted at the college. The average number of students who attended the college during the quinquennum was 152 and the

average number who graduated was 30

300 The superintendent of the civil veterinary department Madras Madras has been relieved of the charge of the college and a whole time principal has Veterinary been appointed to it. The result has been a steady improvement in the work College of the college facilitated by the smallness of the classes which enables the leturers to devote more time and attention to them. Lind adjoining the college has been acquired for a recreation ground and for building purposes. A bacteriological laboratory and pharmacy have been sanctioned but the buildings have not yet been commenced. Valuable models and instruments have been added to the museum. There has been a large increase in the work of the hospital attached to the college. The college staff has under taken the examination of the slides sent in by the superintendent civil veterinity department and his assistants and the work his attrined considerable proportion. The average number of students attreding the college during the quinquennum was 67 and the average number who graduated 15.

385 The number of veterinary graduates who passed out from the veterinary colleges during the quinquennum and the number of students who attended during 1911 12 together with corresponding figures for the previous quinquennum and for 1906-07 are given below —

		Number of students at- tending during 1900-07	Number of students at tending dur ug 1911 12	Total number of graduates passed out dur ng the years 1.00.—1907	To al number of graduates passed out during the years 1907—1912
Punjab		259	196	209	324
Bombay		111	58	59	107
Bengal		104	123	Ga	154
Madras		190	o1	29Jin 2 years	76
	Total	. 56 t	456	362	G61

Whilst the number of graduates who have passed out from the colleges during the quinquennium has very greatly increased, there has been a considerable falling off in the number of students attending the colleges More care has been exercised in selecting candidates for admission to the colleges and great difficulty has been experienced in obtaining students who possess the educa tional qualifications required In spite of the great increase in the number of graduates the demand for qualified veterinary assistants, and for the higher grades of provincial officers, such as deputy superintendents and veterinary inspectors, continues to exceed the supply There is not at present any institution corresponding to the agricultural institution at Pusa, where the highest class of veterinary instruction can be given, and until such instruction is provided it will be difficult to procure in India a class of men suited to fill the higher posts of the department A beginning has, however, been made in making this higher class of instruction available, and post graduate courses have as stated above been instituted at the Punjab Bombay and Bengal veterinary colleges The following table compares the existing strength of the subordinate veterinary staff in each province with the staff which has been sanctioned -

	Existing stary			Siscioned etapp		
Proxince	Deputy Superm tendents.	Seleranary Inspectors.	Vetermary Assistants.	Deputy Superm tendents.	Veterinary Inspectors.	Veterinary Ass dants
Madras Bombay (includ ng E nd) Bengal	1 8 6	2 3 15	66 65 61)	3 8	15 21	152 213
B har and Orano	-	5 2 16	67	11	25	319
Un ted Provinces	1	16 1a	140 169	2	***	210 1°0
Punjab Borma	1 .	13*	118	5	13	120
Central Prov nees and Bersy North West Proptier Province	1		90	ĺ	8	120
Rajputana Rajuchstan	}	-1	3 2		-1	3
Toral	15	80	816	79	164	1,304

Indu idual institutions ase The Burma Veterinary School deals with a class of students outside the reach of the Indian colleges and the Punjab Veterinary College with a large number of military students. The bulk of the instruction at the Punjab Veterinary College and the whole of that at the Burma Veterinary School is not he vernacular. In the other institutions the reading is in English. The course in all the colleges extends over a period of three years and successful students obtain a diploma. None of the colleges is affiliated to a university but they are all controlled by the Local Government concerned through the agency of the agricultural department. The professors at the various colleges are drawn from the civil veterinary department and are helped by trained Indian assistants. The whole staff is ordinarily engaged on teaching and demonstration but each college is equipped with laboratories which are used

^{*}One laboratory assistant attached to the Insein School.

not only for demonstration but also for purposes of diagnosis and research. The courses of instruction at the various institutions and particulars of the teaching staff employed are given below.

337 The Punjab college is still the largest of all the veterinary colleges Punjab The average number of students attending the college during the quin Veterinary quennum was 238 and the average number who graduated 65. The additions College which were made to the buildings during the quinquennum consisted of six stalls and a post mortem room erected in the segregation ward. As it was found that the classes had outgrown the capacity of the staff two imperial officers have recently been added to the latter a post-graduate professor and a profes or of pathology and parasitology in addition to four assistant professors und three demonstrators. The sphere of work of the research labora tory attached to the college has been largely extended

388 During the quinquennum the new Bombay college building one Bombay of the finest and best in India was completed and occupied as were Veterinary also a hostel with accommodation for 76 students and quarters for College Indian professors. The pharmacy was extended and the post mortem room improved. A new cattle-operation shed was built and the dog ward reconstructed. The staff of the college was recently reorganised and an assistant professors added to it. Provision has also been made for holding a post graduate course. The library is reputed to be thoroughly up to date. The work at the patho bacteriological laboratory has greatly increased and the laboratory has been fully used for diagnostic purposes and minor research. Microscopes have been added to the collections at the museum. The average number of students who rittended the college during the quinquen num was 104 and the average number who craduated 21.

389 At the beginning of the quinquennium a new hostel with quarters Bengal for accommodating 156 students was opened in Calcutta A post morten Veterinary room hospital surgeons quarters quarters for married and immarried over College sees have been provided and the laboratory accommodation has been extended by the addition of a room for photo incregraphy and a dark room A private hospital for students and a football and cricket ground have also been added and the services of a trainer and gymnasium instructor have been provided. The work in the research laboratory has included the examination of and report on pathological specimens and blood slides the preparation of a quantity of normal sterile horse serum the bacteriological examination of samples of bone meal and some work on the treatment of surria. A postgraduate course has been in tituted at the college. The average number of students who attended the college during the quinquennium was 152 and the average number of students who attended the college during the quinquennium was 152 and the average number of students who attended the college during the quinquennium was 152 and the

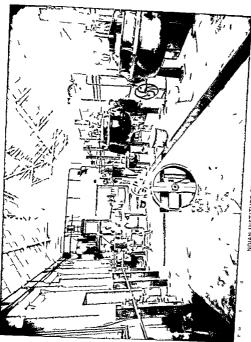
390 The superintendent of the civil veterinary department **Vadras Madras has been relieved of the chirge of the college and a whole time principal has **Veterinary** been appointed to it. The result has been a steady improvement in the work **College of the college facilitated by the smallness of the classes which enables the lecturers to devote more time and attention to them. Land adjoining the

college has been acquired for a recreation ground and for building purposes. A bacteriological laboritory and pharmacy have been sanctioned but the buildings have not ye been commenced. Valuable models and instruments have been added to the museum. There has been a large increase in the work of the hospital attached to the college. The college strift has under taken the examination of the slides sent in by the superintendent civil veterinary of partners and his assistants and the work has attained our siderable proportion. The average number of students attending the college during the quinquennium was 67 and the average number who graduated 15.

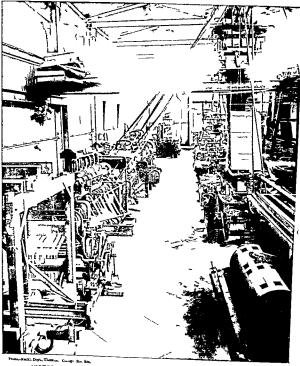
391. The Burma school has been transferred to Insen. A temporat Burma Inboratory has been put in working order and a large number of I derinary smears examined chieffly of diseases suspected of being of a contagnous School nature. In view of possil little of the future expansion of the school about nine acres of I had have been acquired. A laboratory assistant his been added to the stuff. The number of cases brought for treatment at the hospital continues to increase steadily. A school for the training of Shuts to deal with

contagious diseases in the Shan States was opened in 1910 and is reported to be doing good work

302. Particulars regarding the number of students and the expenditure in the different colleges during the quinquennium are given in appendix XXIII



NDIAN INSTITUTE OF SCIENCE BANGALORE
DEPARTMENT OF APPLED CHEM STRY



VICTORIA JUBILEE TECHNICAL INSTITUTE WEAVING SHED BOMBAY

CHAPTER X

TECHNICAL AND INDUSTRIAL EDUCATION

I —General

303 While the institutions described in chapter IX are primarily Definition intended to prepaire students for employment under government or other public bodies (though they have also come to include industrial or semi industrial departments), the institutions described in the present chapter are distinctly industrial—that is to say, they teach the scientific principles of industrial processes, the processes themselves or the manipulation of material involved in trades or crafts

394 Twelve years ago it was observed that industrial schools in India policy of Lord were lacking in definiteness both of method and object, that there had been no Gurzon's clear differentiation between general and technical studies, that they were government not organised upon any sustained policy, that they were insufficiently co

ordinated with local industries and trades and that the impression they had produced upon industrial education and development had been relatively Lord Curzon's government took active steps to remedy this state of affairs In the first place, they constituted a committee immediately after the Simla conference of 1901, which held conferences with local authorities in the The main recommendation of that committee was the organisation of an apprentice system under which the master artisans would ply their trades on the school premises This was, not accepted by the Government of India, who, in a resolution dated the 4th of January 1904, proposed whole time schools at industrial centres for those who had reached a certain standard of general education, and for the encouragement of local handicrafts half time industrial primary schools the course in which should be designed with special reference to teaching accuracy of workmanship and familiarising the pupils with the best designs and processes applicable to their hereditary Importance was also attached to the formation of an inspecting agency and the provision of scholarships The needs of the time were noticed in the resolution of 1904 on Indian educational policy, and the matter was referred to Local Governments In the meantime the Government of India made a recurring assignment for technical education of Rs 244,000

395 The reference to Local Governments produced various schemes, a Provincial feature of which was the necessity of establishing schools of higher grade in conferences addition to the fostering of trade schools. The whole subject has recently and schemes engaged much attention on the part of the educated public and of government.

There has been a series of industrial surveys conducted during the quinquen nium-in Madras in Bengal, in the United Provinces in the Punjab, in Eastern Bangal and Assam and in the Central Provinces There has also been a series of industrial conferences In Madras, the Ootacamund conference of 1908 recommended the creation of a department of industries and the transfer to it of the supervision of technical and industrial education. This proposal has been sanctioned in part, but the pioneering of industries by government was not allowed, it was held that state funds might be expended upon familiarising the people with such improvements in the methods of production as modern science and the practice of Furopean countries can suggest and that it should be left to private enterprise to demonstrate that these improvements can be adopted with commercial advantage. A committee has recently sat in Bombay to consider the question of co ordination between the courses and standards of technical institutions. At the close of the quinquennium a committee in Bengal was considering the question (among others) of a technological institute for Calcutta A conference for the United Provinces was held in 1907 at Nami Tal It recommended the establishment of a technological institute, a school of design, two industrial

schools on the lines of that at Lucknow an experimental weaving station and a carpentry school the introduction of a practical character into general education and the appointment of a director of industrial inquiries etc Much of this programme has already been carried out as will presently be A committee constituted in the Punjab in 1911 considered that there was nothing radically defective in the course of study at the technical schools, but that the industrial teaching was often unintelligent owing to the employ ment of ill paid artisans. It was suggested that the Mayo School of Art should specialise in the training of efficient craft teachers and that as an experimental measure schools should be started teaching particular industries by instructors trained in I uropean methods without any attempt at general In 1909 a conference was held in Fastern Bengal and Assam, this also recommended the formation of a special department and the estab lishment of a central industrial institute at Dicci with demonstration factories. A conference was held in Burria in 1909 among the members of which there was considerable divergence of opinion. The recommendations included the establishment of a technical school in connection with the Ingen engineering school with smaller schools at various centres, the encouragement of missions and other agencies to start craft classes and the encouragement of technical and hand and eve training in vernacular schools

Progress during the quinquennium

396 The general policy was thus laid down in 1004. It has since been expanded by the demand for institutions of a higher type than the trade-school and elaborated for each province into schemes in general conformity with the muin lines. The progress of the last five years has been considerable, and may be described under the heads of supervision organisation and numbers. Finally, it will train to point out defects and difficulties and describe the most recent steps adopted for their ninedy.

(a) Supervi

307 The question whether industrial education should be under the departments of public instruction or transferred to departments of industry as they arise or transferred only as concerns schools organised on a more or less commercial basis as one which has not yet been fully decided Different arrangements exist in different provinces. In Madras a department of industries was created in 1909 10 of which the director undertook the in spection of industrial schools The creation of this department was vetoed by the Sc retury of State and inspection was retained in the hands of a superintendent of industrial education under the department of public instriction. (Since the quinquennium ended the department of industries has been sanctioned and part of its duties will be the supervision of industrial schools—by which are merat those in which attention is to be paid to com mercial considerations during the period of training-while for technical schools the education department under the director of public instruction will continue to be responsible) A professor of the College of Ingineering at Poona is also inspector of technical and industrial schools in Bombay and there is a special inspector of weaving schools both are under the local department of education A superintendent of industries in Bengal was appointed in 1910 he also is under the control of the director of public instruction and inspects industrial schools. Mr de la losse says of the United Provinces

When recommeding the appointment of a special officer for directing technical culturation the Industrial Conference had propose that 19 a should be stried director of industrial inquiries and in lustrial reducation. It is a study to industrial inquiries and inclusive reducational departs ent and that he should have the same status and emoluments as the director of public instruction. The Secretary of State did in agree with the river that technical end in lustrial electron abould be this divorced from a green clientation and in sanctioning the creation of the post he ordered that the designation of the new officer abould be to along the total continuous and in appeal to that of inspection of technical and in their institutions that his proposed sall is should be reduced and that in regard to educational matters he should be subor limits to the director of public instruction. The state degration of the post which the Local Government has adopted is that of director of industrial inquiries and

An officer was appointed in 1910 In his former capacity he deals with government direct in the latter he is under the education department. There is a director of industries in the Punjab (who is also the director of

agriculture) but the inspection of industrial schools is entrusted to the staff of the school of art. In the Central Provinces also the director of agriculturundertal es the industrial branch and here he supervises industrial schools. In Burma the ordinary inspecting staff appears to be the only agency

398 The difficulty of classification of institutions of this nature is merely (1) for the amanifestation of practical difficulties that underlie the problem. To the two amanifestation of schools foreshadowed by the Government of India in 1904 there has come to be added the idea (if not the fulfilment) of high technological institutions. Thus we arrive at the three fold classification—which distinguishes between (i) technological institutions intended to instruct in the principles of science as applied to industrial arts and to produce masters and managers of industries and scientific advisers (i) technical or intermediate schools for the training of foremen and others who require some knowledge of scientific principles and of machinery (iii) trade or craft schools intended to train artisans to follow their calling with description and intermediate.

399 The progress of the last five years is sufficiently indicated by the (c) Figures following figures for technical and industrial (exclusive of art and commer cial) schools. The number of schools has risen from 147 to 242 the largest increases being in Madras Bengal the United Provinces and the Punjab Punjis have increased from 6 820 to 12 064 and it is noteworthy that the present number is nearly four times that in 1897. Expenditure has risen from Rs 39 1085 to Rs 11 72 947 a year and the amount spent from public funds from Rs 2 12 504 to Rs 5 25 506

As regards management 173 schools are under private bodies Of these
141 are in receipt of aid Mission bodies are prominent as managers of these
institutions

400 While progress is re-assuring various difficulties have asserted Difficulties in themselves some of them long recognised some the product of new develop industrial members. Echonological institutions are only now beginning to be established education in India. Hitherto students have been sent abroad with scholarships. It is a ducation in India. Hitherto students have been sent abroad with scholarships. It is a difficulty some manufacturers are naturally chary of admitting outsiders to a difficulty some manufacturers are naturally chary of admitting outsiders to a vanimation of processes. The employment of the scholars on return while by no means discouraging is not fully assured. In technical schools of the higher sort it is not stray easy to secure pupils. In trade schools there is the danger that boys will be attracted who are not of the artisan class and have no intention of pursuing the craft taught pupils frequently leave the school before they have completed the course or become efficient alters is the difficulty (most observable in the case of weavers) of providing them with proper implements when they take up their own work. The Beggi Henn with proper implements when they take up their own. The Beggi Henn with tration reports a Money and labour have been wasted in teaching boys trades which they will never practise. Pupils often leave the schools when they have leaved merely enough of the trade to earn a living Industrial schools have upparently worked no change for the better in it I aim are upone of the company of the trade to earn a living industrial schools when the proper of the Chinaman has still to be called in when any work out of the

401 These points have recently been considered. At the Allahabad Lettest and These points have recently been considered. At the Allahabad Lettest conference of 1911 it was recommended that technical schools should special developments are along lines converging on local industries and industrial schools should be permanently directed towards such industries as exist in the locality (see partyruh 30 of the recolution). In 1911 12 Lieutenant Colonel E H de V Athinson R I. principil of the Thomson College and Mr TS. H de V principal of the Victoria Jubilee Technical Institute were deputed to make an enquiry as to the menus for bringing technical institutions into closer touch and more practical relations with the employers of above in India Their interviews with employers form a most interesting record. They came to the conclusion that there is practically no opening for their great mechanical or electrical engineers whose education is mostly of a the oracle mechanical out that there is a very large opening for the employment in these branches but that there is a very large opening for the employment in these branches of men who after training in a properly equipped intitute are willing to gain their practical experience by apprenticeship on a living wage with with their hands and observe factory hours and rules. They recommended a

similar scheme of training for textile industries and a school of mines in the Ben-al coal fields with subordinate classes for evening lectures. At the very end of the quanquennum the Secretary of State for India appointed a committee in Ingland to enquire and rejort as to the facilities available for Indian students for industrial and technological training in that country with special reference to the system of state technical scholarships tenable abroad. The enquiries and findings of this committee belong to a period subsequent to that covered 1; this review

Imperial grants 402 For the general improvement of technical education or for the improvement of special institutions the Government of India have in the past two years allotted Rs 1784300 non recurring and Rs 200000 recurring

Classification

403 In the description which follows the three fold classification of these schools is adopted. But it is to be remembered that the technical school and even the engineering school or college generally contains its artisan classes or similar means for simple tride instruction. In particular it has already been shown that at Sibpur and Rookee the technical and industrial aspect of education has been recently developed side by side with the professional. An account of schools of art and of commerce is allog yield.

II -Technological institutions

State tecl nical scl olarships

404 At the beginning of the quinquennium there were no institutions of this class in India though instruction of an advanced type was given in mechanical and electrical engineering at the professional colleges. In place of such institutions scholarships terrible abroad were offered to Indian students in order that they might benefit by the frichities available in England and elsewhere. During the quinquennium an institute has opened at Banga lore and another has been attempted and proposed in the United Provinces. The present section describes these developments.

405 The system of state technical scholarships commenced in 1904 Their object is to qualify the holders on returning to India to assist in promoting the improvement of existing native industries and the development of new industries especially those which are or may be organised on a consider able scale and those in which Indian capital is or may be embarked The subjects are annually chosen by Local Governments in consultation with mercan Agriculture law medicine forestry and veterinary science are excluded from the scieme. Inginiering at first excluded has now been admitted and recently a scholar was sent to study architecture. There is no examination Adminations are made by the Local Governments and the Those are chosen who are final selections by the Government of India considered to fulfil certain conditions The scholar is expected to have had the best education available in the province in the industry he intends to the best education available in the subject and the intention of devoting himself in India to the practice of what he has learned. The value of each scholar slip is £150 a year. The scholar also receives his travelling expenses and his education fees. The tenure of the scholarship is two years but the period. Government does not guarantee the holder any employment may be extended on his return. Ordinarily one scholarship is awarded to each province annually but more may be given subject to a total limit of ten scholarships Up to the end of March 1912 sixty six scholars have been sent (an average of about nine a year) In order of popularity the subjects chosen are textiles mining and mining engineering mechanical and electrical engineer ing leather metallurgy soap making and the chemistry of oils and fats sugar industry alkali pottery and engineering and sanitary science. Thirty one scholars have already returned to India two have obtained employment abroad the rest have not yet completed their studies. Of the thirty-one who have returned eighteen have obtained private industrial employment seven are in government posts connected with industries one is similarly employed in Mysore one has joined the bar one is dead and there is no certain information about the remaining three

Other scholarel vas $406~\Lambda$ society in Calcutta called the Association for the Advancement of Scientific and Industrial Education of Indians has also raised funds aided

by government for sending scholars abroad. It appears that 80 students thus tenable abroad sent have returned of whom twenty eight have found industrial employment nine have started work on their own account inneteen have entered government municipal or state service or are englised in teaching and twenty four (most of whom had only recently returned) have not vet found employment.

408 The establishment of a technological institute for the United Pro- Technological

407 The Indian Institute of Science at Bungalore was initiated by The Indian Mr J N Tata a Parsi merchant but the cheme did not take final shape till Institute of after his death The Tata family have given land in Bombay which brings becence in Rs 120 000 a year The Government of India gives Rs 87 000 a year The Mysore Government contributed a site and five lakes towards the initial expense and the Government of India gave two and a half lakhs towards the same The institute opened in July 1911 and 17 students entered it that year It provides for research the application of new processes and the production of thoroughly trained managers. It possesses departments of general organic and applied chemistry and electrical technology and also provides instruction in French and German to enable students to read technical journals As the first batch of students entered within a year of the end of the quinquennium it is too early to judge of its results The Allahabad conference recommended its development into a complete faculty of pure and applied science

vinces was one of the proposals of the Naini Tal conference. It was decided schemes in the that it should consist of two parts Classes in mechanical and electrical United engineering were to be attached to the Thomason College The department Proxinces was opened in 1909 and took the place of a previously existing technical class It was intended to attract a higher class of students particularly those who had business connections and were destined to be managers or employers of labour No candidates joined A three fold division was then made the highest department offering engineering and training in textiles the second and third being on a lower plane and intended for mechanics. The engineering section has hitherto not drawn the right class of students whole time textile instructor was engaged and plant was provided. It was found difficult to obtain any students with the necessary qualifications The It is intended to render the class more attractive by instructor resigned adding weaving bleaching and dyeing. The first experiences says Mr do la Fosse has not been very encouraging owing to the reluctance or inability of the class which it was proposed to benefit to take advantage of the oppor tunities offered The lower division or mechanical apprentice class (which belongs rather to the category of technical schools) has been more successful The second branch was to be established at Cawapore with the object of encouraging research in applied chemistry with reference to important industries in the province The Secretary of State did not sanction the

409 The mechanical and electrical engineering sections of the various Odler professional colleges may be classed as technological. At Subpur the class for technological intertorial chemistry (mentioned in paragraph 3.33) may also be so described classes and possibly the mining section there opened.

III -Tecl nical clooks

scheme A more modest scheme was accordingly formulated intended to give instruction in the chemical aspect of sugar leather acid and alkali manufacture dyeing bleaching printing colouring and finishing of manufactured goods and paper making. Hitherto a site has been secured

and buildings commenced

410 Technical schools are those which train a grade midwax is tween the Technical manager or master on the one hand and the artistan or criftispan on the other schools are the manager or master on the one in the new toward and the school are to different produce men of this type in the medianced and electrical branch. The procured special institutions either converge on distinctive local industries or where these do not exist are situated at centres where an education in various branches may be expected to bring employment.

- 411 With the remoral of the chrome tanning department described in the last review, it may be said that, with the exception of the schools mentioned in paragraph 350, the institutions in Vadrar are mainly of the craft school order. The presidency possesses cotton mills, tanneries and rulway work-dope. But, says Sir A. Bourney, imdustrial eduction appears so far to have had little relation to production on a large scale as exemplified by such factories and workshops." The government technical examinations will be noticed in connection with industrial schools.
- 412 Among a number of schools in Homburg four are classed as technical schools. Two require special mention: The Yitteria Mubbler Technical Institute, Bombay, has classes in mechanical and electrical engineering textile manufacture and technical chemistry. It is a privately manuged institution under a board and is considerily subudised by government. Hostels for 200 students, a central electric power station and other works have recently been extracted out, towards which government contributed a lakh of rupees, as well as a special recurring grant of Rs. 15,000 a year for increased staff. The courses have been recast, the main change being their extension from three to four years including ask months' prictice in an outside mill, factory or workshop under supervision. The textile department is reported to be making particularly good progress, and the students negati themselves well at the City and Guilds of London the institute examinations. The Runchholdal Chotalal Technical Institute at Ahmedalad was under contemplation when the left review was written. It opened, as an advantage of the contemplation, about two years ago, and the first batch of students has not yet been unred
- 413 In Bengal schools of this type are devoted largely to mining and weaving Managers of mines are required by rules framed under the Indian Mines Act (VIII of 1901) to possess first or second grade certificates according to the output of the mine or the number of employees In addition to examination, fire and three years' practical experience in a mine is necessary for the attainment respectively, of a second and of a first grade certificate. But these periods may be reduced by two years through attendance at a course in a recognised institution. In order to provide such institutions and facilities for a general turining in mining subjects the Government of Bengal (the province where the majority of the mines are situated) established in 1906 a course at the Subpur college and maining classes in the coil distinct.
- At Sibpur the student has first to pass the sub-overseer examination. He then pursues a two years' course in geology applied to mining, mining engiaeering, coal and metal mining and descriptive mineralogy. Six weeks' annual training is given in camp in the coal fields. There were sixteen students in 1911 12. Seven of them were special students, i.e., men already employed in mining who are attracted to the college by liberal scholarships. Owing to the lack of education among these special students, it has been decribed to abolish the scholarships.

The mining classes are held at four centres in the Jernah and Ranganj fields. A local committee at each centre arranges for good attendance. The average attendance in 1911 12 were 29, 30, 30 and 40 at the four centres respectively. The lectures are recruited from local mining managers. It is proposed to increase it enumber of centres to air. The classes are controlled by a Mining Educational Advisory Board which includes inspectors of mines, managers and educationats.

The utility of the lectures is lessened by the want of knowledge of English among the audience

The course at Sibpur is not regarded as a success. On the other hind, the classes in the coal fields have given satisfaction. The authorities toucerned with mines and the representatives of the mining interests are in I vour of instruction on the spot, and it is generally thought that the system should be developed by the opening of a school of mines at Asanol in addition to right classes at various centres. The Indian Mining Association would prefer to develop the existing right classes. It will be remembered that a university graduate course in mining has been framed. The Bengal report says, "The general conclusion appears to be that provision should be made both for a central natitution at Asanol and for a more effected and more extended system of instruction, through evening classes in selected localities than is given at present. It is moreover evident that the introduction of university instruction in mining engineering would be at least premature for the present, if not entirely anadysable.

In 1900 the Serampore Weaving Institute was opened in Bengil. It has two classes. One is for wouths who have been trained in a technical school or have passed the 'B' class or matriculation. They have a two-year course in power and hand loom wearing drawing and designing calculated to fit them for positions in mainfacturing concerns. Of a total of 64 students 35 are in this class. They are executing to take the City and Guilds of London Institute examination and have no difficulty in finding studied by the state of the superior than the state of the superior hand are put through a us months course in practical weaving and improved methods of preparing arms for warps on the Indian system. The principal says of this class "At the commencement of the institute much difficulty was experienced in getting the actual weavers to join, as, spart from their prejudices, they were under the impression

that they could learn nothing more than what they already knew I am pleased to be able to state that in a little while they changed their minds, and were full of wonder when they saw how easily their cherished trade secrets could be analysed and worked out after a little instruction, even by youngsters. This difficulty has been overcome, and at present there is no trouble in getting bond fide weavers to fill the place of those who pass out. Another attraction is the simple course of dyinging that they are tanglit. Up to the present time they had to buy dyed yarns at high prices, and the weavers tell me that the knowledge of dyeing they get is quite sufficient for them to earn a livelihood apart from weaving. Prior to the establishment of the Weaving Institute, Serimpore, weavers limited themselves to the manufacture of dhoots with coloured borders, and with few exceptions flowered borders were considered family secrets handed down from father to son, and these border designs were limited, now they are able to produce any design working up to shout 10 or 12 shafts from design papers. The drawing lessons they get are a great assistance in producing new and original designs." Twenty small scholarships are given, and account for nearly 18 7,000 out of the total annual cost of 18 27,000. A difficulty is the supply folloms to those who leave the school. There are also three outlying stations where instruction is given and a school at Sambalpur mainly for the Gonds.

A society in Calcutta started in 1907 an institution culled the Bengal Technical Institute which was amalgameted in 1910 with the technical department of the Bengal National College It has an engineering aids, with a course similar to that tanght at Shipur, and a technological side which teaches ceramics, tanning, panting and varinishing, dyening, bleaching, soap, candle, oil and perfume making, and the preparation of matches

- 414 The technological department of the Thomason College in the United Protinces has already been mentioned, other institutions will be described under industrial schools
- 415 In the Punyab a school called the Vactora Diamond Jubiles Hindu Technical Institute has been started at Labore with the object of attracing Hindus, especially those of the higher existe, to take up industrial employment. It is managed by a board of governors and derives its income from grants, asbecrptions, a small endowment and the sale of the outtorn "There are two departments," writes Mr. Godley, "senior and junior, the former trains students for mechanical engineering, and the litter for engine-driving Special instruction is also given in circipatry, fitting, etc. At the close of the year there were 60 students, other with the punior class. A number of students obtained certificates under the Boiler Act, and the report contains a list of ex-students who are employed as engineers and drivers on salaries from Rs. 30 upwards.

 The total expenditure was Rs. 12,599, about one-third of which was met from grants. A foundry was added during the quinquennum The efficiency of the institution is greatly hampered by want of funds, and the practical value of the timining given under the present conditions has been questioned by experts."

Mr Godley also makes the following observations -

- "The province is well equipped with professional institutions maintained by the State, while the industrial schools maintained by local hodies offer possibilities of development into craft schools under the guidance of the Mays School of Industrial Art. Tech. The second of Industrial Industrial State Industrial Industrial State Industrial Art. Tech. The second of Industrial Industrial State Industrial Industrial State Industrial Industrial Industrial Industry of western countries to confirm the view which is not infrequently advanced that technical schools will proprie mota create industries. The average student attending a school of technology vanus in getting employment on good pay as the result of his training, and if the capitalist employer is non-existent, or if, as commonly happens, he as disminined to vesture his money in school technologies and increasantly card willege. It may well be doubted, therefore, whether in the Punjab, where material concerns are comparatively small and few, and aslaines are on a modest scale, the time has come for directing an ambitions scheme of technical education. More hops seems to he in the direction of improving crafts and an admittance by the introduction of better methods and labour saving appliances, through the agency of errit schools or otherwise.
- 416 Mention has been made of the school at Incein in Burma in the chapter on professional education
- 417 Of the Central Provinces, Mr Wright says, "During the quinquennium the Industrial School at Auraout was converted into the Bear Victoria Memorial Technical Institute The buildings and shops were cereted by popular subscription A government grant in-aid is given for maintenance On completion of a three years course

in the institute followed by a very's work in a null or factory students are eligible for the Boller Act examinating. Here is also a class for the sons of artisans in carpenty and metal work. These scholarships were given during the five years for study of textile industry, tendle at the Victoria Jubilez Technical Institute, Bombay

IV -Industrial schools

Industrial schools in different provinces 418 It is impossible to give an exhaustive account of all industrial schools. The following pringriphs attempt to give an idea of the general line adopted in each province. The schools may conveniently be divided into general schools (i.e., those that give instruction in a variety of subjects, generally wood and metal work weaving, etc), and weaving schools, those, that is that devote themselves mainly to the land loom industry. In some provinces such as Madras there are also special arrangements made for study of telegraph, and in others there are automobile classes

(a) General schools

- 419 Sir A Bourne remarks that in Madras industries are carried on by people work ing with their families in their homes or in small groups in workshops the industrial revolution has gone but a little way. There is considerable scope for craft classes in this presidency as is testified by their numbers and rapid increase ""The industrial schools have mostly been established by missionaries abations to secure a livelihood for their orphans They are therefore often on a small scale and many of them are schools of lace making and needlework. The director of industries criticised them as forming an unorganised body and as being too little in touch with actual industries and pointed out that industrial efficiency demands besides craftsmanship the ability to use time and material with such economy as results in commercial profit and that the training neces sary for this can only le obtained in an institution in which one part of the work is the actual production of goods at a profit. Among the crafts taught the most general is woodwork. The largest classes for this trade are those of the Madris Anjuani Muffidi Als 1 Islam an institution for poor Muhamma lans substantially nided by gov ernment. The other schools appear to be managed by mission hodies. Blacksmith's work is taught in about six schools of which the Madura Technical Institute (already mentioned) has the largest class. The number studying metal work has somewhat defined and fitter's work seems to have taken its place. A feature of the most efficient industrial schools is the extent of their commercial side. Skilled artisans are employed and orders of some magnitude are executed. Though the total value of work turned out fell during the quinquenium the amount reclised from sale proceeds of school manufactures rose. This "says the director "freems to show that the schools are manufactures rose

 I this explain a commercial point of view and are more success
 fully studying their markets." Printing and look binding are taught on a considerable
 seale in the Madria Government Press Technical School where general press work is also learnt. There are other schools which terch compositor s work. The numbers are said to I ver fillen. The government technical exminitions have already been men tioned. They are of elementary intermediate and advanced grades. The subjects tions and include as well as explained in the memory of the minerous and include as well as explained; parties of the manual drawing jeweller's work printing etc wood metal and leather work textiles glass pottery tailoring and cooking Scholviships are given on the result of the examinations
 - 420 Including minual training classes Bombay reports 63 schools of this class some of which are miniged by mixino bodies. Those situated in the northern division are reported to have done particularly well. One of them the Mahajan Home Industrial School at Surat is a charitable institution sitended by orphans belonging to the Kalinger and the surface of the surfac
 - (1) Lack of co-ordination of technical and industrial climation throughout the presidency. Manuging bodies and superintendents of schools are left to themselves as regards organistion and management every in so far is they follow which are advice they may have received from the majector of technical electration during his animal visit. In some cases creditable efforts are made to meet the needs of the locality in respect of this kind of education. In other cases managing bodies or superintendents though perhaps energetic enough have failed to produce results in accordance with the object of such schools viz. to give boys a truining that will lee of practical value in preparing them for industrial life. In many instances however teachers have no tourless and than obtaining good inspection reports.

(2) The teaching is usually conducted in a dogmatic manner without method and without interest. In other words the teachers have no clear idea of their functions as teachers and are in consequence uninspiring.

(3) The majority of loys who enter in industrial school do so without any definite object in view and in this state of mind they drift aimlessly through their school course

Their gold during this time is in most cases no higher than that of passing an examina tion. They and prol ally also their purents and guardians make no effort to form a plan of life to choose a trude and keep that end in view.

- (4) There are a number of schools which do excellent work but which cannot be said to have of singer leaf success for this remon six if at the mayouty of these pupils on leaving school eitler would not or could not follow up the trade or occuprition for which they had some kind of preparation at school. I have treed do recurring the show the extent to which this state of matters exists. Only a very schools were able to comply with my request for returns but these show that a very small proportion of the total pupils who have passed through the schools obtain suitable employment subsequently.
- (5) The attitude of local autiorities towards industrial education has in the past been aften one of apathy. In many cases local authorities are interested enough but are apt to rely on their own knowledge of the subject or on thirt of incompetent advisers. In local heard schools teaching appointments are filled up without consulting the opin ion of the director of public instruction or the inspector of technical education.
- (6) The personal relations between the superintendent and his mininging board and the virious authorities and employers of lad our in the locality, have a resy stong learing on the question of employment of industrial school pupils subsequent to their learing school.

To remedy these defects be recommends the appointment of a full time effect, the truining of all techers of technical and industrial subjects selection in the admission of pupils the enlistment of the symptities of employers of labour and others in the interests of such education the approval of the direction on the advice of the other in the charge of this branch of instruction to all appointments and the raising of the pay of teachers and superintendents.

- 421 Bengal has certain technical schools musly for engineering, as already mentioned and others of a more industrial character. The best of these is considered to be the Banis his sel ool attacked to the Exit Indian Rulway collery workshop maintained by the company for it sons of its employees with a grant from the district board. It teches physics chemistry and mechanics and also gives a training in carpentry and bricks and mechanics and also gives a training in carpentry and bricks must be the Kuurapaku undustrial school managed by the Mone Curpentry and curpet weving at the Kuurapaku undustrial school managed by the Mone and the College of the College of
- 422 In the United Pressuces the industrial conference recommended the improvement of the Lucknow industrial school and the estit linking schools at Cava pore and Gorikhpur and subsequently elsewhere. The Lucknow school after passing through many stages has been throughly recognised. The numbers have been reduced and it now contrains only genuine industrial students. The staff has been attended and the equipment increased. A hostel has been added and stipends provided for relatives of artisans. A might class consently been started and is attended solely by the relatives of princips. Of the two new schools proposed only that of Gorashque has been started. It opened in 1910 on lines similar to those of the Lucknow school. It has made a successful start the ordinary classes have been well attended and the inpit school has a successful start the ordinary classes have been well attended and the inpit school has TI students. Another recommendation of the conference was the establishment of a solid originally designated the school of design. This is called the School of Arts and Carlis and was opened at Lucknow in 1011. A good start wood carring and griding hear provided and sciipling school in the school of the handle of the conference was the establishment of a structure of those branches claice printing schendling litheography ir no work drawing punting designing and modelling. The institution is intended to 'provide in structure in those branches of design and handcraft which here on the more artistic trades and professions now practised or which may be developed in the province. In addition to these larger schools there are eleven is add and seven unasided ind structure of the school of the school

the artisan classes for tuition but a growing demand among those not of the artisan classes for industrial tuition for their friends and relatives

- 423. The most prosperous austitution in the Punjab is the railway technical school at Labore with 461 pupils. There are also eight andustrial schools mustinated by local bodies which follow a departmental curriculum which was revised in 1911. Literary subjects are taught in addition to carpentry, metal work and wearing. It is reported that 60 per cent of the pupils belong to the artisan classes and that a record of after career abows that most of those who have received that education take to industrial work Special grants have been offered to local bodies for the opening of craft schools or fraiding industrial instruction to ordinary schools and the establishment of an industrial school in each district has been suggested. Industries are also taught in orphanages and elementary schools.
- 424 Only three industrial schools are reported in Burma but incidentally the American Baptist Mission has introduced instruction in carpetity, beat building blick work and gardening at several of its schools. And at the school for Kerens at Toungoo, carpentry printing and book binding are taught.
- 420. In addition to the artism classes statched to the Ahamulla School of Engineering and to the technical schools. Eastern Engal and Alaron has eight small industrial schools at Mymeasingh Bogra Shaharadpur (Pabna distinct). Chittagong Rampur Bodini (Raphaha) Malda Shillong and Kohuma. The subjects generally taught are black smith's work carpentry and wearing. The school at Bogra was started in 1903 and is a government institution. Those at Shaharadpur and Chittagong are private in stitutions. The latter received and and there were proposals for its provinculusation. This however was not carried out and the school has practically ceased to exist. The school at Rampur Boola is for sericulture and is under the agricultural department, that at Malda is a wearing school under the district boord. The schools at Shillong and Kohuma called after Sr Bamfelde Fuller who initiated the scheme are for the training of Khaisa and Nagas supends are given and the latter school is said to be particularly successful. There is also a Williamson Endowment in Assim (called after a tending the supends are given and the latter school is said to be particularly successful. There is also a Williamson Endowment in Assim (called after a tending the supends are given and the latter school is and to be particularly accessful the ones for the education of the Assames; from the proceeds of the course of the c
- 426 In the Central Provinces some of the mission bodies carry on industrial education mainly for the benefit of their famine orphans

V-Wearing

(b) Weaving schools

- 427 In Madras the number of pupils learning various crafts grouped under textiles a considerable although those who are learning cotton weaving show a decline owing to closure of one of the schools
- 428 In Homboy testile echools naturally take a prominent pointion. The Victoria Jubiles Technical Institute has now a hand doorn section in add ton to power wearing. The inspector of weaving schools makes the following observations.—' Since I began the inspection of weaving classess fair progress has been made in some of the schools in which weaving is taught. There are ten small industrial schools in which instruction is given in testile work. There are ten small industrial schools in which instruction is given in testile work. There are ten small industrial schools in which instruction has its own course of work this makes it rather difficult to observe the progress made from time to time. If a common course of work was arranged for all the schools it from the form of the schools are not in the school of the schools are not in the school of the schools are not in the school of the schools are not because the school of the schools are not because of the training not because the bors an some of the schools are in localities in which there is very hitle weaving whereas in some of the schools are in localities in which there is very hitle weaving whereas in some of the schools are in localities in which there is very hitle weaving whereas in some of the schools are in localities in which there is very hitle weaving so the schools. This arrangement is one cause of the training not because the bors only obtained and commercial point of view this method is not good for the expansion of the local weavers are engaged to give dipressed cond tion is morthly due to the low level of printing in the school of the committee is an experience of the committee. Such teaching is without interest and of no real advantage. There will never be any natural indigenous demand for them until there is a higher standard of instruction given. In one small school several members of the committee are against any improvement being introduced. Two years sgo I sent a fly shitlle motion and cause loom year. In one small school several members

Such instructors will never be the means of developing the mental powers of the boys on modern lines and creating a natural demand for indigenous industrial schools?

429 Bengal, as well as the school at Serampore and the weaving stations which have already been mentioned, has textile classes at halimpong and among others a weaving school under the Dublin University Mission in the Hazaribagh district, a board school in the Palanau district and the blink weaving institute which is the only industrial school in the Pathanau district and the blink weaving institute which is the only industrial school in the Pathanau District Board entertains a peripatetic weaving instructor and a carpenter who go about to the more important centres for Muhammudan weavers. The carpenter repairs looms when required. This, says Mr Prothero, is a useful system which might be conveniently imitated elsewhere

430 Mention has already been made of the weaving classes at the Thomason College in the United Provinces An important part of the Local Government's scheme of in dustrial development was the revival of the hand loom cotton weaving industry through the popularisation of improved looms and methods of working. The establishment of a working station formed an item of the general scheme. The school has been situated at Benares and started work in 1911. "The class for which it caters, says the report "is very poor, backward in education and suspicious of novelty." It has proved diffu cult to frame a satisfactory curriculum. Of the 10 students in the school at the end of the period only one belonged to the weaver class. It is proposed to organise a hire purchase system to help weavers to buy improved looms

There are also eight schools, the first and most important of which is the Hewett Weaving School at Barabanki | These schools were at first placed under the agricultural department, but were transferred in 1911 to the control of the department of public instruction. They are managed by local committees and aided by grants in aid from government, which aggregated Rs 31,500 in 1911 12. It is estimated that 870 learners have been trained to the use of new looms and 451 of them bought looms Stipends are have focus unitaries. Though the Hewett School has been successful, doubts are entertained in the report as to the work of the schools in general. Sometimes the pupils attracted are not members of the wearing class. So far as can be secretained the use of the improved loom leads to over production and it is consequently difficult to market the cloth. Though accurate figures as to after employment are not available it is noticed as significant that it was recently found necessary to ask mill owners if they would give employment to post pupils. It appears to be questioned whether the hand loom industry is capable of indefinite expansion as a home industry, or whether the tendency is towards the development of small weaving factories. The inspector suggests that possibly cooperation rather than cottage industries will prove the salvation of the weaver

431 The Punjab has no organised system of weaving instruction, but efforts have been made to introduce improved looms and better methods. A weaving station has been established at Lahore and recently the Salvation Army opened a school at Ludhiana The latter has proved only partially successful partly owing to the mability or un-willingness of the weavers to purchase the improved loom after instruction. The department of industries recently sold some of the Salvation Army looms on a system of payment by instalments and these are said to be working satisfactorily board industrial schools teach weaving and a third school is to be opened

432 In Burma weaving is taught at a girls' school managed by the Society for the

Propagation of the Gospel at Shwebo and in 14 vernacular schools

433 Weaving is taught in some of the industrial schools of Eastern Bengal which have been already mentioned. The only institution entirely devoted to this subject is the board school at Malda. The weaving class at the Kashi Kisbore School at Mymen. singh collapsed at the beginning of the period, but has been resuscitated, nineteen stipends ranging from Rs 3 to Rs 10 have been created, and there are now 27 pupils The class opened in the Bogra school proved a failure and was abolished

VI -Schools of art

434 Some account must now be given of schools of art and commercial F_{iqures} schools The schools of art in India are largely industrial schools. The large schools under the management of government number four The number of their pupils has not increased and now stands at 1,234. Their cost is Rs 1,96 556, all of which save about Rs 32 000 is met by government On the fine arts side the most noticeable tendency in recent years has been the attempt to revive Indian ideals and designs. There are also a few private schools

435 In 1900 a scheme was initiated for compiling a set of industrial art pattern Industrial books for India. These are being worked out in various provinces. The Bengal report art pattern makes mention of an important work which the Calcutta School of Art is undertaking art pattern makes mention of an important work which the Calcutta School of Art is undertaking books.

Art schools in different provinces 430 In Madrat, says Sir A Bourne, the functions of the school of art as such had genenium "The staff and working of the school have been reorganised. It is now intended that it shall be concerned only with industrial art, the only concession to the claims of fine art that is made being the holding of a class for paining. There is ether drawing instruction in the school, but it is made to subserve the needs of such crifts as engraving, wood-carving, weaving, and lacquer and pereller's work. The aim is to develop the art industries of the presidency on Indian lines, and to avoid that western sing of ideals and methods which it is concerned results from putting Indians through a South Kensington drill in drawing and modelling. The old system of paid apprenticeship has been replaced by scholarships and as the smallness of the number of these or ginally sanctioned appeared to discourage their channels examinations harmful rather than not and rather discourages his pupils from taking them. A good number do so, however, and a large proportion pass. He holds competitions among them in criffsman ship and with the help of his staff awards certificates of merit. Improvements have been made in the building and equipment of the school. The superintendent again occupies the house on the premises, the pupils all attend for a full day a work, the staff is properly dapted to their reclination. The numbers on the rolls are not appreciably smaller than under the old system, and the average daily with definite intelligible aims and in a way the large first recently have almost all secured work for which their training fit them.

It is added that 134 pupils of this school are learning wood engraving and that

jeweller's work is also taught

437 The Sir Jamsetji Jeejeebhoy School of Art in Bombay continues to be highly successful It may be said to consist of three sections (1) First, there is the school itself, where drawing, painting and modelling are taught and teachers are trained. It has 307 students. The principal says, "Many fine specimens of ancient paintings of the Persian, Moghul and Indian schools have been purchased and are exhibited in the school museum and the distinctive qualities of the eastern convention have been continuously brought to the notice of students of these classes. Nothing short of compulsion, ously orrugal to the notice of students of these classes. Auding short of compution, however, will induce students to work in this style, and to apply such drastic measures would have the effect of emptying the punting school and of driving the students to classes outside the school where western methods and conventions are less intelligently taught by Indians who have studied in Europe." Excursions are taken to places which afford objects of interest for drawing, plans and elevation A new development, from which the principal anticipates far reaching results, is the extension of the architec tural school "In the year 1906, this school consisted of two draughtsmen's classes in charge of a non professional teacher, the course of study being entirely an elementary At the present time the school is in charge of the consulting architect to govern ment who is assisted by three professional lecturers and instructors and the course has been enlarged to one of four years, in which all subjects germane to the study of architecture are taught. A commencement has also been made in founding a museum of architectural casts, models and materials which is an indispensable part of the equipment of such a school. The presence of a professional staff of lecturers could only be obtained by holding the classes in the morning from 7-40 to 9 40, and these hours also suit the majority of the students who are engaged in architects' and engineers' offices during the daytime Both with regard to the number of students attending the archi-tectural school and the quality of the work done the results obtained from the improved tution and the extension of the course have been encouraging. The number of students has risen from 37 in 1906 to 140 in 1911, and the effect of the improved tution has been already apparent in the higher class of draughtsmanship exhibited in the plans submitted by architects in the city, to the municipality and Bombay City Improvement In the art that appeals in different ways to the greatest number of persons distinct progress has been made and the foundation laid of greater progress in the future "
(11) The Reay Art Workshops the utility of which was doubtful and which formed the subject of an enquiry in 1910, contain 171 pupils (of whom 79 receive stipends) studying wood-carving engraving, iron work carpentry, copper, brass, iron and gold work, and other subjects (iii) The Sir George Clarke technical laboratories and studios were opened in 1910. The subject studied is pottery. The department? says the princi opened in 1934. Into accept a student or poors, a small staff working under him. An exhaustive survey of all the clays found throughout India suitable for the manufacture of pottery has been made and specimens have been analysed. Standard bodies with their appropriate glazes have been discovered and these have been worked up into articles of commercial value and artistic form and colours A school of pottery is to be established and information on all points connected with the pottery industry is now available for the persons engaged in the trade. The ground has thus been cleared for the establishment of a pottery on modern lines in India

438 In Bengel the Calcutta School of Art was reorganised in 1909 and divided into five departments—elementary, industrial, draughing, teaching fine arts. A pupil first joins the elementary class, and, after working there for two years, undergoes a course of

about three years in one or other of the higher departments. The industrial department has classes for lithography wood engraving modeling and wood-carring of the other departments that of fine arts requires special mention. The process of denationalisation says the report has been arrested. The jolicy of installing Indian art in the place of supremary which it ought to occupy in an Indian art school and of inspiring the minds of the stidents with a desire to follow Indian ideals has been continued during the quarquenium under review. The art gallery has been combined during the quarquenium under review. The art gallery has been combined with the artware court of the Indian Museum and contains some of the finest available Hindu and Mushammad in water colours. There are 250 students. The cost of the school in 1911 12 was Its 44 312 of which all (save about Its 4 000 from fres) is defrayed by government.

There are three private schools of art in Calcutta. In Mr. Cumming s industrial reprivate street that one of them (tle Albert Lemple of Science) while professing an Indian character uses European casts drawing, books and des gns.

400 The School of Arts and Crafts at Lucknow to some extent serves the purpose of an art school for the United I rounces and has already been mentioned in paragraph

440 The institution in the I waysb is the Mayo school of Art Labore. It has four departments—for elementary industrial work and dray ring for advanced industrial work for drug, itsmen and for teachers. New workshops are in course of erection and cotion juntum, enamelling and lottery re-about to be added to the course. Towards the end of the quin quenium the school vas busy with work for it is Imperial Durbur 17e principal Sardar Buhadur Iblan Rum Singl designed models for the amphithesity roy if parti on and dats. There are also parties.

411 It should be mentioned that the Bombay School of Art conducts drawing or Instruction and animations at which in 1911 there were 3/45 candidates. The principal is not alto-communations gutlers tisfied with the result and the risolution states that government have under in drawing cours decration propose is for the reorganization of the scheme and the appointment of an indrawing inspection of drawing. Of the schools of art train teachers the class at Calciuta has been adversely affected by the fact that the university no longer presented drawing as a subject for the unitroplation. In Burmas where there is no school of art a series of copies

based on Burmese des gn has been prejured and is proving popular

4. There is a school of music for Europeans in Madras and there are also two Schools of

5thools for Indian music There are three schools in Bengal two of which receive aid

music

B ind music is taught in some of the reformatory schools

VII -Commercial schools

443 The subject of commercial education has recently attracted atten Figures toon in India. The University of Bomby has instituted degrees in commerce The University of Allahabad and the Punjab University have instituted a certificate in commerce 1 urthernore there is a project for a commercial college of an advanced type in Bombay. The scheme has been sanctioned and the question is under consideration whether arrangements should be made at it for the organised study of economy and sociological problems. The easting schools as stated in the resolution did not attain a high standard of instruction and the truining offered propares for clerical duties rather than for the conduct of business itself. General commercial courses intended to all the place of the matricultion or high er examination are not popular because the immediate banefit is not discernible. Institutions which the instruction in shorthand and typing in addition to or in the recognised courses have increased and are sought after because the lead to immediate and comparitively remunerative employment. The total number of schools has increased in the quinquennum from 12 to 23 the number of pupils from 534 to 1543 and the expenditure from R 20 343 to RS 52278 of them government provides Rs 23344 Indigenous commercial institutions called the figures supply to the pupils from the first part of schools being the description will be found of them in paragraph 603.

441 Tle most important commercial school in Madras is that at Cal cut, which has Commercial as fine but ld ing. It was at lead for turning out teachers for the commercial subjects schools unler tho set on learning cert ficate schome. A constraint number of its schools in different it is presidence are reported to teach only typewring an occupation the wages for different which have risen.

415 Commercial education in Bombay is described as a plant of tardy growth. The nort fluenching institutions appear to be the Commercial College Bombay, the Commercial School Stolajur and twing times as College Bombay which is said of the course pursued. In a few high schools three are converted classes.

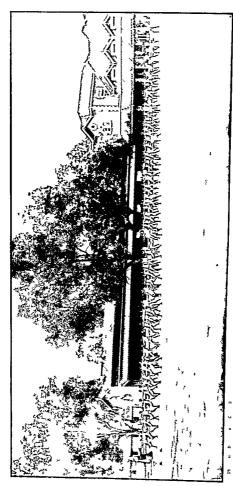
446 The commercial classes in Bengal were transferred from the Presidency College in 1997 and became a separate institution under the name of the Government Commercial Institute. It effers a day course extending over two years and comprising modern English, commercial and mental artimetic and geography, book keeping, shorthand typewriting, and commercial Bengali Evening classes have been held in reporters' shorthand, political economy and mercalitie law. The examinations are controlled by a board including representatives of the chambers of commerce. The report complains of the disposition of populs to neglect all subjects for shorthand, typewriting and book keeping, the difficulty of commence all subjects for shorthand, typewriting and book keeping, the difficulty of commence all the state of the subjects taught isser the first two of these, the preference for university examinations, and the competition of private schools, which (says the principal) "are prepared to teach any one just as much or as little as he pleases, and that too at whatever time of the year it may be comvenit to him, and at whitever hour of the day." It is needless to descent on the 'C' classes (a part of the 1901 scheme which also produced the 'B' classes) because in the last year only two candidates presented themselves. Apart from defects of the course it may be hazarded that the failure is attributable to the fact that, while the 'A' class could not be relied upon to lead anywhere. The'C' classes have now been abolished. Seven private schools are chronicled, with 367 upuls

447 In the United Protinces commercial teaching has been taken up at the mission colleges—St John's at Agra, and the Rend Christian College at Luckhow, where, in addition to the usual subjects, general business methods are taught and, at the latter institution, an Urdu shorthand class and a normal department for teachers of commer call subjects in high schools have been opened. There is also, says the report, a young and aspiring business department at the Meerut College, which has recently been placed in charge of a European professor and is in receipt of aid. The institution of a commercial certificate by the university is said to have stimulated and focussed the work of these departments.

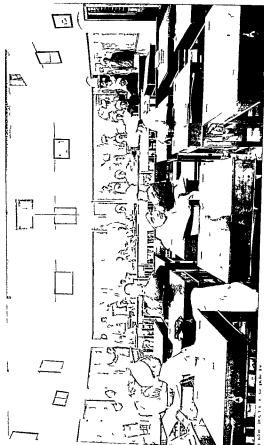
448 Commercial subjects are taught in the Panyah at added continuation classes in Lahore, and in high schools. The former are managed by the Young Men's Christian Association and the Koung poster as good salaries. In the latter, purplish are generally prepared for the university clerical and commercial examination (considered about equal) prepared for the university clerical and commercial examination (considered about equal) to the matriculation) which attracts a small and diminishing number of candidates. The want of success which attended the opening of a considerable number of such classes in governments schools points to the necessity for concentration. There is a clerical and commercial school at Amritian with 61 pupils, the course prescribed for the university examination is followed.

449 On the failure of the 'C' classes in Eastern Bengal, six private institutions were opened. They are said to be more than self supporting and to be doing good work

ALLAHABAD TRAINING COLLEGE,



TRA NING COLLEGE JUBBULPORE EXERCISES



TRAINING COLLEGE SAIDAPET MADRAS

NORMAL SCHOOL PESHAWAR

A GURU TRAINING SCHOOL

CHAPTER XI TRAINING OF TEACHERS.

I -General

450 The extent of the problem presented by the training of teachers is Amount of apparent from general table IX There are 18,831 high school teachers of training whom 5.435 are trained There are 24.493 teachers in middle schools, both required vernacular and anglo vernacular, of whom 9,038 are trained Teachers in primary schools number 171,359 and those who have been trained number The percentage of trained teachers to the number employed is thus 29 for high schools 37 for middle schools, and 25 for primary schools number of teachers who annually pass with success out of the training colleges and schools is 5 019 The total number of teachers employed is 214,683 we allow a wastage of 5 per cent a year the number of teachers to be annually provided is 10,734 At the present rate not half the annual wastage can be replaced by trained men, and there is enormous lee way to make up The main retarding causes are the unpopularity of the educational service which does not offer sufficiently attractive terms, the dislike of any special course of education which will delay entry into a profession, and a want of appreciation of the benefit of training Another factor is the comparatively high cost of this form of instruction, on the average each student (male and female) under training costs government Rs 140 a year-a fact which renders difficult the establishment of a due number of institutions The problem is a difficult one On its solution largely depends not merely the rescue of secondary education from the conditions which depress so many of the institutions, but also the lasting success of any scheme for a wider diffusion of elementary education An expansion of training facilities, combined with better prospects for the educational employee is the obvious remedy

451 The features of the quinquennium have been the increased atten- Features of the tion paid to this branch of education, the steady growth in the number of quinquennium institutions and pupils, a much wider extension in some provinces of the facilities for primary training, and, most striking of all the establishment of secondary training institutions where none existed before It is remarkable that in Bengal and Eastern Bengal and Assam where the number of high schools for boys is over half of that of the whole of India and the number of English middle schools actually 1 537 out of 2 464 no institutions previously existed for the training of the host of teachers required in these schools existing colleges and systems for training secondary teachers have been re organised and improved especially in the matter of staff. Finally at the close of the quinquennium, large re organisation schemes were under con templation in Madras (which would throw the work of secondary training entirely on colleges and high schools) and in Eastern Bengal and Assam for a great expansion of the facilities for elementary training and the entertain ment of a better staff The schemes have been sanctioned subject to certain

reservations in the case of Madras

452 Training institutions naturally divide themselves into those for Organisation secondary and those for primary teachers The quinquennium has seen a further move towards general uniformity of organisation-colleges preparing both graduates and under graduates (sometimes separately, sometimes together) to be secondary teachers, normal schools and schools or classes of lower grade instructing primary teachers or candidates for such posts Madras and Burma still provide secondary training in institutions not of the collegiate grade These two provinces also present some peculiar features in the matter of primary training

453 The total number of institutions for men has risen from 318 to 500 Numbers and that of students from 8 225 to 11,887 The total evpenditure has

increased from Rs 10 63 969 to Rs 17 76 103. that from provincial revenues from Rs 915 712 to Rs 15 37,100. The cost per student (in the case of men) has risen from Rs 134 to Rs 156 a year, and the cost to government from Rs 114 to Rs 135. These institutions are mainly under government management all the colleges are one and 335 out of 490 schools being controlled by the State. In the United Provinces 105 of the schools are under board management in Madras 18 and in the Punjab two 7 this makes 1 total of 128 board schools. Two of those shown in the tables are under native states. Twenty four are aided institutions (of which 14 are situated in Madras) and one is unaided. Of the students 8 601 are Hindus. Muhammaduns have increased from 1100 to 2 110

Stipends and conditions

454 Of training institutions in general it may be said that the difficulty ordinarily is (save in the case of normal schools of certain provinces) to attract students to them and to keep them to the career of a teacher after wards. Fees are not required sive in special circumstances e.g. in Midras fees are charged from students who come from outside the presidency Teachers deputed for training receive the full pay; of their substantive posts Private students (i.e. those who are not yet in employ) receive stipendsfrom Rs 15 to Rs 50 a month in the case of graduates from Rs 12 upwards in the case of under graduates pupils in normal schools generally receive a very small stipend pupils of lower vernacular institutions Rs 6 to Rs 10 The difficulty of ensuring that the trained teacher practises his profession is greater in the case of elementary than of secondary teachers. Nor among the former are those already in employ at the time of training so likely to adopt another career as are candidates who not merely having received a gratuitous education but actually having been paid to receive it are tempted to utilise that education for purposes more lucrative than a vocation where the initial pay is often no more or lut little more than the stipends they had previously been drawing. The measures tal en include insistence upon agreements and the prospect of special terms after training. The former practice is confined to certain provinces and was extended to students of training schools in Eastern Bengal and Assam during the quinquennium As to the latter it has been laid down in Bengal that the promotion of teachers in government schools shall depend upon the attainment by them of a degree or a diploma in teaching and graduates entering the subordinate service must give an undertaking to go through a course when required Some provinces as for instance Bombay are beginning to prescribe a higher rate of initial pay for elementary teachers. Of this more will be said presently. But the complaint comes from some quarters that sufficient is not done for the trained teacher to recompense him for the time spent in training

Attendance at special 455 A characteristic of training cours sof various standards in India is that attendance is necessiry at an institution specially designed for instructing in the courses and for superintending practice. The interestries insist on this and the departmental diplomas (sive under certain conditions in Burma) require the previous prosecution of study in a school recordined for this purpose. The fitness of the institution varies from the college staffed with European specialists and Indian graduates to the auru training school of Bengal with an instructor on less than £15 a year or the ordinary vernal cular middle schools deemed capable of receiving apprentices. But the fact remains that the diploma of training requires attendance at a training institution and provision is ordinarily made for residence on the spot for physical exercises and for an ordered life that contributes in no small degree to the value of the course.

Pract sing or model schools 456 Another feature common to all these institutions of whatever grade is the practising or model school uttached. The question of its correct use constantly arises. There has been a tendency during the period to replace practising schools in which the students under training do a portion of the teaching work by model schools in which they attend lessons delivered by a regular staff make notes and occasionally themselves take part. Thus we learn from the Madras report that the practising schools were often poorly

^{*} Fxelud ng the tra n ng colleces for women

[†] These two are of purely temporary n tu e

^{*} Somet mes up to certa n hm ta eq n the Punjab up to Rs 40 above that three-quarters

attended because the teaching was indifferent, the training staff had to devote too much time to improving it, and those under training were unable to pay sufficient attention to the improvement of their general education. These remarks may be taken as of general application to different grades of institutions though not of equally full application to all Larger institutions such as colleges, either have a special high school attached to them on the premises for this purpose, or use one or more already existing schools near Institutions of lower grade (such as the guru training schools of the Bengals) ordinarily have an elementary school in the same building Model elementary schools have been established in Madras with excellent results Sometimes this system is combined with a limited period of regular teaching At the Lucknow College for under graduate teachers each student is required to take six weeks teaching under normal conditions in one or other of the high schools that have offered themselves for this purpose It is said that the greater stress and attention given to this side of the training has been thoroughly beneficial There is a similar scheme in some of the vernacular normal schools of the Punjab Thus at Rawalpindi the model school was run entirely by the pupil teachers for nine continuous weeks each student working for five days, and at Multan every student taught in the model school for about three weeks on an average The suggestion may be hazarded that (though practice cannot be dispensed with) the model lesson is suitable in the case of the secondary teacher, whose better education enables him to under stand principles and imitate intelligently, and whose after work will be carried out before a (potentially) well ordered and quiet class in a single room among surroundings favourable to the application of a theoretic and methodic The elementary teacher on the other hand must not only watch but also to a far larger extent than the graduate practise the very activities in which he will subsequently engage. His mental calibre demands rules of thumb learned by actual application, his teaching will be done in the pell mell of an elementary school, where several classes of different ages are probably seated in a one room building and ready resort must be had to shifts and devices in order to overcome difficulties. In this connection the inspector of Kumaon (United Provinces) writes -

'A novel feature in the practical work of the training classes has been introduced during the year to remedy a defect which has often been remarked in connection with the subsequent school work of teachers trained in these classes is a their comparative insulability to handle successfully more than one class at a time. To pit three or four classes under one teacher may not be an ideal arrangement but it is unfortunately insertiable in the great majerity of lower primary schools and it seemed only common sense to give teachers under training in the training classes an opportunity of acquiring facility in carrying on such work. Accordingly it has now been made the practice in this training class and in most of the other training classes of the division to set one pupil teacher to conduct several classes simultaneously in others looking on and trivies gradually attained.

457 The staffing of these institutions is of vital importance. By Staff of reason of the difficulties of classification the subject may be conveniently training treated here (It is to be understood that when pay is specified it means institutions monthly pay)

Colleges which train graduates ordinarily have a principal and a vice property of the foliate educational service. Bombay and the Central Provinces are exceptions and have only one member of that service. The rest of the staff varies considerably from one province to another. As examples may be taken the college at Sadapet near Madras which has nine assistants on pay ranging from Rs. 75 to Rs. 250 seven assistants on low pay partly for the practising school a drawing master a drill master a lady (happy thought) for the instruction of the infants in the school and a large temporary staff, and the college at Dacca which has three assistant professors in the provincial educational service (Rs. 200 rising to Rs. 700).

Colleges or English training schools for under graduates naturally have a less evpensive staff. The colleges of this nature at Patna and Lucknow have European principals with special pay rising in the one case to Rs. 700 and in the other to Rs. 500. And with these may be classed the large schools at Rajahmundry (Madras) and Rangoon. The former (which was

till recently a college) has a headmaster in the Indian educational service

and a numerous staff on pay varying from Rs 40 to Rs 200

But here a difficulty arises For in Madras and Burma* the training of English and of vernacular teachers is conducted in the same institutions. In addition to the two large schools just mentioned, there are other schools. These are staffed in Madras by headmasters on Rs. 40 to Rs. 60, two to four resistants and a gymnastic master, while the model schools attached have headmasters on Rs. 20 to Rs. 25 and four or less assistants. In Burma the headmasters of these schools range from Rs. 100 to Rs. 400, with four or more assistants on pay varying from Rs. 50 to Rs. 250, and in all cases a

teacher of Sloyd

In other provinces vernacular is mainly distinct from English training
The higher vernacular schools (i.e., training or normal schools) are staffed as
follows. In Bombay (where they are designated colleges) the headmaster
is ordinarily on Rs 400 and is assisted by an ample staff on pay ranging
from Rs 30 to Rs 200 inclusive always of teachers of gymnastics, and
sometimes of manual training drawing or music. In Bengal the headmasters
ordinarily draw Rs 200 and the staff from Rs 50 to Rs 60. The schools
of the United Provinces have headmasters on pry ranging from Rs 100 to
Rs 200, each assisted by four teachers on Rs 40 to Rs 100 and a drill master
In the Punjab each school has a headmaster on Rs 120 up to Rs 200 and
five assistants (including a drawing master) on Rs 45 ranging to Rs 100
In Eastern Bengal the headmasters of training schools are in the provincial
pay of Rs 60. In the Central Provinces the pay of headmasters is Rs 100
ringing to Rs 200 and each school has generally six assistants on pay
ranging up to Rs 50. The North West Frontier Province has one school,
of which the headmaster receives Rs 120.

Lower vernacular training is carried on in most of the normal schools just mentioned in ordinary middle schools and also in the Bengals, in small institutions called guru training schools. In these last there are three instructors on Rs 18 Rs 10 and Rs 8 respectively, who, as well as teaching

the students look after the attached model schools

458 In this connection it will be interesting to consider the average annual cost of a student in a training school for masters in each province The figures are—Madras, Rs. 147, Bombay, Rs. 171, Bengal Rs. 113, United Provinces Rs. 126, Punjab Rs. 154, Burma Rs. 465 Eastern Bengal and Assam Rs. 105, Central Provinces Rs. 160 Coorg Rs. 174 North West Frontier Province Rs. 289, the average figure for all India is Rs. 131. The differences are due to the character of the staff and to the numbers under training. In Bengal and Eastern Bengal and Assam the cost is particularly low because the figures for the cheaply run gure training schools are included. The figure for Burma is high because the school serves the purpose of an

English teachers' college

459 Tranning colleges generally have good habitations of their own. The college at Bombay, however has no building and occupies two class rooms in the Elphinstone High School. It also lacks hostels and playing grounds The David Hare Training College at Calcutta does not possess very satisfac tory accommodation. The buildings of the numerous training schools vary considerably. The larger normal schools have generally good houses of their own. Where there are large numbers of lower institutions difficulty naturally arises. In the Bengals, where these schools are very numerous, the buildings which were regarded as of a temporary nature, were deplorable at the beginning of the quinquennum. Type plans were prepared and a large amount of money has been expended. The grains which have been given for training institutions should permit of considerable improvement in this respect. The erection of hostels has been a satisfactory feature 460. The present chapter contains a description of institutions given in a

general way and taken class by class. There has been to some extent as remurked above an approximation of systems in the various provinces. But

"The statement need to be qualified by the forther statement that in Burma the anglo-versa and taken and the former department though close statement that the same bull up, have desired to the same bull up, the desired of the assistant from the 300 for 300 statement that the same department as a province of the hardmant from the 300 for 300 statement of the 100 to fits "90 and from the 300 to fit of the same transfer of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fit of the 100 to fits "90 and from the 300 to fits "90 and from the 30

Classification

Cost of

training

Buildings

Сиззтрению

the different organisations still offer points of difference sufficient to make generalisation no easy task. Accordingly, at the risk of some repetition, a de-cription of institutions province by province is added in appendix XXIV

It is also to be remarked that different systems of classification to some extent vitiate the figures found in the general tables while the classing together in returns of schools of varying types renders impossible a complete numerical analysis

II -English training institutions

461 Institutions for the training of teachers in English classes fall into Colleges and two broad divisions—colleges and schools The former prepare graduates for schools high school masterships The latter prepare those who have passed the intermediate or the matriculation (or its equivalent) or (as in Burma) merely a standard of the secondary school course to be assistant teachers in high schools, headmasters of English middle schools etc. The classification however, is not precise. Sometimes a college teaches students of both these grades, sometimes (as at Patna and Lucknow) it teaches those only of the lower grade, and Burma has no college, but instructs its teachers of all grades in schools. This difference of arrangement and nomenclature introduces mevitable confusion into the tables, and Bombay, which calls even its vernacular normal schools by the name of colleges classes its English teachers' college with these in the category of schools

462 There are (exclusive of the class for Europeans at Sanawar) ten (i) Colleges colleges for the training of male teachers for secondary schools In 1907 there Aumber were six colleges The college at Rajahmundry (Madras) which was always regarded as a temporary expedient has been closed, or rather amalgamated with that at Saidapet On the other hand five new colleges have opened The number of old and the number of new institutions are thus equal. Those which previously existed include the following -The Teachers College at Saidapet, near Madras, is now the only college in that presidency. It is a well found and well staffed institution. The secondary teachers' training college at Bombry is classed as a school. It was opened about the close of the preceding period and is housed in the Elphinstone High School The third and fourth are the Training College at Allahabad and the Central Training College at Lahore The fifth is the Training College at Jubbulpore in the Central Fromnes, which though in previous reports classed as a college was rared to the collegiate grade during the present period. Of the new colleges four are in the Bengals namely the David Hare College in Calcutta and the Patna and Dacca Colleges, likewise the London Missionary Society's Training College at Bhawanipur (the one aided college for male secondary teachers) The fifth is the new college for under graduates at Lucknow Owing to the omission of the Bombay College the precise number of students cannot be shown, but (if we exclude 15 students at Sanawar) the general table shows 507 students against 367 m 1907 Similarly, the expenditure which was just over two lakhs in 1907 is now Rs 3 11,539, nearly three lakhs of which is met from provincial revenues

463 The colleges are mainly intended for the training of those who are Admission and. already teachers of government and other high schools and of those who stipends intend to become teachers Stipends are paid to the latter their pay (or some portion of it) to the former In Madras, the director sanctions the stipend which in the case of a teacher may not exceed the pay of his substantive post, or in the case of a candidate up to Rs 50 a month * The ordinary number of collegiate stipends is 40 but the director may admit a larger number of stipendiaries. There were 99 students in 1912. At Bombay, the selection of stipendiaries by the college has been changed to a system of deputation of teachers by the director-twenty nine from govern ment and five from aided schools At the David Hare College (Calcutta) twenty or (including inspecting officers) twenty four graduates form the limit of the class A certain number of places are reserved for private

students † At the Patna College (which teaches the course for the licentiate)

^{*}Optimizily rispends of Ra. 1s are given to those fresh from college or from private schools, and three form the given majorities and these form the given majorities only government servants have been admitted.

admissions are limited to twelve a year, private candidates, preriously admitted with stipends of Rs 35 a, year, are now enrolled only when government teachers are not available to fill the vacancies—a restriction which is regarded as a mistake by the principal At Dacca the full pay is given to a teacher, and stipends of Rs 20 and Rs 15 to private students in the degree and heentiate classes respectively. There are at present 37 students in the college, of whom 25 are already in government service, six are teachers in private employ, and six are candidates. Seventeen are taking the BT and twenty the LT course

The colleges in the *United Provinces* appear to admit only candidates. The Allahabad College offers 30 stipends, the value of which has recently been raised from Rs 15 to Rs 20. At Lucknow there are 48 stipends—24 for those who have passed the intermediate and 24 for those who have passed the intermediate and 24 for those who have passed the matriculation or its equivalent. At *Lahore* the allowance payable to teachers of government and board schools under training has been raised to the full amount of their pay save in the case of those whose pay exceeds Rs 40 when three fourths are given. The amount of stipends for candidates Rs 18. The number of students in this college is large—229, but the institution contains lower secondary and also vern cular classes. At *Jubbil pore* the college admits teachers on three fourths of their pay and candidates on stipends of Rs 15.

University degrees and courses

464 All universities save that of Bombay have now instituted degrees or diplomas for those who intend to follow the profession of teaching. In the case of the universities at Madras Lahore and Allahabad the course is purely a post graduate one The Calcutta University alone offers, in addition to a bachelorship of teaching for those who are already graduates in arts or science a licentiate in teaching for those who have passed the intermediate It follows that the university courses are pursued at all colleges for English teachers save at Bombay at Lucknow (where the institution has been specially established for under graduates) and in Burma where the examinations are under the control of the department and of the Educational Syndicate At Lahore and at Jubbulpore (Central Provinces) both university and departmental courses are studied. In other words the colleges sometimes follow only the university course, sometimes only a departmental course and sometimes both Occasionally it is found desirable to give instruction in additional subjects other than those prescribed by the university in classes which are being prepared for the university examinations

In Bengol the degree of bachelor of teaching may be taken at any period subsequent by more than a year to the passing of the bachelorship in arts or science. The incentiate in teaching is obtained at least two years after passing the intermediate in arts or science. The course for the BT includes the theory and practice of teaching in relation to mental and moral science methods of teaching specific subjects and school actions or classics. They cannot seem to the science of teaching process that it is also necessary for a candidate to have undergone either a course of practical training consisting of not less than fifty lessons for a period of six months at a training school or to have served as a teacher at a recognised school for one year previously to the examination, and a feature of the test is a practical examination in teaching by means of lessons delivered by the candidate to a class in certain effected subjects. The course for the Ironital is similar to that for a selected course in modern English prose and poetry is added. At least two years must elapse after the passing of the intermediate for the Incentiate to be obtained. The Vadrau University prescribes a course only for post-graduates. It is of a year's duration. The examination is a written test in the theory and practice of education (including the elements of physiology and psychology reasoning knowledge and language plan ming of courses correlation of studies classification examination and methods approximate of the subjects and a practical examination is prescribed for practical straining for one year. The course control of studies classification examination and methods approximate of a selected subjects. Written papers are et upon these explored and a practical examination is prescribed for practical stall in teaching. The University of Alkaholos offers a diplemo of licentized the classing to graduates in any faculty save the oriental who have undergopes a course of treating to graduates in any faculty save the oriental who have undergopes

and also to give satisfactory evidence of his ability to teach and manage a class. He may also offer himself for a test of special fitness, for teaching one or more branches of the high school curriculum.

465 Where, as in Bombay the university offers no degree or diploma in Departmental teaching or where classes for students of lower qualifications are attached courses, to colleges teaching the university courses, the departments of public instruction prescribe their own curricula and conduct their own examinations. An exception is the system in the Bengals, where the university prescribes for and examines graduates and under graduates alike

The college at Dombay admits both graduate and non graduate teachers. The course is not one year and includes method psychology and the history of education, as well as demonstration and criticism in which the staff are mainly employed. The training college at Luckinosa admits those who have passed the matirculation for the school leaving certificate) or the intermediate examination—the former to a two years course and the latter to a course of one year. The examination is partly written and comprises papers on general knowledge of English (including composition and conversa tion) arithmetic and geometry, and on the theory and method of teaching. It is partly practical, the candidate conducting lessons before a board. The Punjab College in addition to the university course for graduates (and the vernacular course) offers two other courses for matriculates or for those who have passed the intermediate (provided that the latter have also studied for the B A for two years or have passed the junior certificate in the first division) leading up to examinations called respectively the junior and the senior anglo vernacular certificate examinations. The course is now of two years in the case of matriculates in other cases of one year. It includes ordinary instruction in Linghish, mathematics and (for the senior class) scenece, interedded to broaden the knowledge of the candidates, and also in school management criticism lessons and grounds and the contract Provinces while adopted the course includes the principlet, history and practice of education. Special subjects may be talken. The test is pritly virtie and partly ord Burma has no college and the arrangement for training angle-vernacular teachers will be noticed below.

466 The method of teaching in the colleges is by lectures, essays, and Method of model and criticism lessons in the attached high school The following ie training marks are made by the principal of the David Hare College The aim of the training courses is to give the teacher an all round preparation for his work, both from the theoretical and the practical points of view On the one hand he needs a knowledge of the subjects which he has to teach, an acquaintance with the nature of the pupils mind and of the principles which underlie the teaching art, and some knowledge of the history of education in the past On the other hand, he learns by actual practice in the school room to control and teach his class The theoretical training has been imparted by means of lectures on the theory and practice of teaching in relation to mental and moral science, on the methods of teaching school subjects and of muntaining discipline and on the history of education Weekly essays on appropriate subjects have been written by the students. and the library as an aid in preparation has been at their disposal, also test papers are periodically set by members of the staff. As to the practical training each student attends the demonstration lessons by the staff, each has to prepare and give under supervision lessons in the schools, and each has to watch and criticise lessons given by the other students of the college" The course also includes teaching English by the direct method to a class of young boys knowing little or no Inglish at the commencement of their of young boys knowing little or no angustum as the College students make teaching in the Hindu School, and the Truning College students make teaching in the Subject throughout the year. ___. The results,* says Mr Griffith "have been surprising as the boys now follow any lesson of a simple character that is given in English". At the Lahore College there are duly lessons in the science of education and the art of teaching specimen lessons delivered weekly by the masters of the practising school, practice in teaching and managing classes for two or three weeks during the session and daily criticism lessons.

467 The annual cost of educating a student in a training college for Cost of meaning and remales is Rs 348 in Madras, Rs 1,009 in Bombay, Rs 1,163 in training. Bengal Rs 722 in the United Provinces Rs 414 in the Punjab Rs 1077 in Eastern Bengal and Assam and Rs 794 in the Central Provinces, the average

figure for all India is Rs 587. The difference in cost depends not so much upon the remuneration and size of the staff in the various institutions but rather upon the number of students admitted at Saidapet and at Lahore are 99 and 229 respectively (and vernicular students are included in the latter college). The Hare, Dacca and Patra Colleges contain together only 63 students

(11) Schools

468 Secondary training institutions of the lower grad, exist because there are not enough graduates to staff all English teaching schools. It is therefore necessary to train as teachers a curtain number of undergraduates—those who have passed the matriculation or the intermediate. Figures of pupils cannot be given since they are mixed in the returns with those in vernacular schools. Moreover as will have been gathered from the preceding section they are sometimes shown among the numbers at collegiate institutions.

Organisation

469 The arrangements in different provinces fall into three classes (i) Sometimes as just stated the college trains both graduates and under graduates This is the case in Bombay, in the Punjab in Eastern Bengal and Assam and in the Central Provinces A description has already been given of the college courses in those provinces and nothing more need be said (ii) In Bennal and the United Provinces the instruction is imparted in each case in a single institution designated a college but separate from the college in which the post graduate course is taken. At the Patna Train ing College in Bengal the course for the licentiate in teaching of the Calcutta University is taught Allusion has already been made to the Lucknow College (111) Wadras and Burma have a number of institutions for secondary training Madras has eight such schools with 154 under graduate pupils who have generally had some experience in teaching and expect employment in the lower classes of secondary schools or as headmasters of elementary schools The course is purely professional is conducted in Eng Isla and extenderver a year. An important scheme of reorganisation is under consideration which will prolong the course to two years increase the general knowledge of the pupils and render the instruction more practical in Burma (which has no college) both anglo vernicular and vernicular certi ficates are obtained after study in the normal schools which number eight and may or may not contain anglo-vernacular classes The system has been changed during the quinquennium Previously a pupil had to have attained a certain standard in the ordinary school or university career before he could be admitted to either of the courses prescribed (and save in the highest grade) to have attained a higher standard as well as undergone training before he could earn either of the three certificates now while three kinds of certificates are still offered a single course extending over two years suffices for the earning of the primary or middle school certificate and also serves as the examing of the financy of minure school certificate and uso serves as the groundwork. leading on to a third year of study and a high school certificate now merely means that the candidate while not failing completely has failed to secure a middle certificate Previously qualification for admission to the primary course was the fifth standard now it is the seventh standard and the minimum age has been raised from twelve to fifteen years Previously the qualifications for a certificate of the two lower grades were (in addition totraining) the seventh standard and the matriculation respectively now special and harder literary tests have been substituted and a whole time training course at a normal school is prescribed Previously untrained candidates were allowed to appear at the professional tests (which are held by the educational syndicate) now only teachers may appear under certain conditions It will be observed that there are no institutions for training secondary teachers in the North West Frontier Province teachers for that province are trained at Lahore

Admission and stipends

470 The pupils admitted to these institutions are generally matriculates or those who have passed the intermediate in some cases as in Burma they need not have passed the matriculation. Of the supply and quality of pupils at Lucknow Mr de la Fosse says — Formerly there was some difficulty in securing candidates but it no longer exists and quite a number of applications for admission have annually to be rejected for want of room

J'or men who do not proceed to college education seems to hold out as good a career as any other profession or occupation. The quality of the material for training remains rather mediocre. Intermediate applicants are not forthcoming in sufficient quantity and there is a preponderance of men who have passed only in the third division. This meagreness of intellectual and educational equipment constitutes a serious diag on the efforts of their instructors." In view of the fact that the students are sometimes included in colleges, sometimes in schools, it is not possible to state the amounts of stipends with precision.

- 471 It is unnecessary to enlarge upon the courses and methods pursued Courses and These have been sufficiently indicated in paragraph 465, which gives in Methods brief the curricula followed in some of these institutions Generally it may be said that attention is given to enlarging the knowledge of the student in addition to his professional preparation for the work of a teacher
- 472 The problems and the tendencies which have mainfested themselves (iii) General in the organisation and courses of secondary training institutions during the characteristics, equinquennum are summarised in the following paragraphs
- 473 It is coming to be recognised that colleges should confine themselves Qualifications to the work of training graduates. Those who have not already taken a for admission degree are not admitted to the colleges at Sandapet, Calcutta or Allahabad Of the last named Mr de la Fosse says, "The single training college (formerly) admitted both graduates and under graduates, thus attempting the impossible task of training M A's and entrance passed men together." This led to the opening of the Lucknow College. On the other hand, it may be observed that the supply of graduates is insufficient to provide the number of assistant teachers now required in high schools or of headmasters of middle schools And, where arrangements cannot be made, as in the Madras presidency, at Patna and at Lucknow for the training of under graduates in one or more-separate institutions, considerations of economy, etc., have hitherto kept the under graduate classes under the same roof with those for graduates. The difficulty of this arrangement is mitigated where only those who have passed the intermediate are admitted. It is noticeable that in the Bengals (where the supply of men with higher qualifications is probably larger) the training of matriculates has not been attempted. In Burma, where the supply is limited, those are admitted who have not even matriculated
- 474 Owing to the unpopularity of a two years' course the period of train Length of ing has in some cases been reduced to one year. The report from the Punjab training undoubtedly shows that the change has increased the numbers in the college It is also stated to have induced a number of young men of the right type to take up educational work and to undergo training The prin cipal of the college, while considering the class of students obtained in this arrangement to be excellent, admits that the effect of the change has yet to be estimated The principal of the Dacca Training College, on the other hand, is convinced that the BT should be a two years' course "The first year," he says, "would be devoted to the content and special methods of teaching of school subjects. We find that some subjects especially history and geog raphy, have not been touched since the student was in class VII of the high school and even earlier, and the impression is that any one can teach them so long as he is a few hours in advance of his class, or even if he has the advantage of a book in his hand While we try to remedy this as far as we can, we find the time table far too crowded" In 1903, the principal of the Bombay college recommended the extension of the course to two years

On the other hand it is more generally recognised that the lower grade training should extend over two years, and the course for the junior anglovernacular certificate for matriculates has been extended in the Punjab to that period A similar proposal has been made in Madras

475. The Punjab University has relieved its course and at the same time More practical rendered it more practical by substituting a fuller study of the methods of courses teaching for the lives of eminent teachers and the systems of instruction in foreign countries which were previously included

Greater attention is paid to manual training (not merely as a subject which the student may hereafter be called upon to teach but also as an edu cation in itself) to observation and to skill in physical training. Of the Allahabrd college it is remarked that a novel side of the training is the course in the manual workshop. Then the properties of the training is the aptitude. The principal writes that they have learnt the difference be tween accurrey and vagueness they know what personance means and have gained what most Indian texchers lack a respect for work done with the hands. At the Lahore college a workshop for manual truining has been erected and application have been made for the engagement of a skilled European instructor with the object of organising classes in educational handlwork on modern methods. All the schools in Burma law instructors in Slord.

Supplementary subjects

y 476 At Dacea while the university curriculum forms the basis of instruction it is supplemented by weekly excursions to places of interest such as the government farm the bacteriological laborators and the museum of the medical set ool. Criticism lessons are given of which the subject matter a prepared by the students themselves from original observation of the things and processes dealt with. Black board work is made a special feature and

Specialisation

each student learns how to teach physical exercises 477 The importance of specialisation is beginning to be realised 'Thanks says Mr de la Tosse to the enlightened policy of the university candidates may offer themselves for special examination in particular subjects of high school education Probably more and more attention will be paid to this aspect of the work as time goes on. Its great value is at present to emphasise a fact which is often overlooked that a course in the principles of teaching or even practice in teaching cannot help a teacher much unless he has knowledge and grasp of his subject." At Lahore too each student specialises in science history geography mathematics or English literature by writing out full teaching notes of twelve connected lessons in his special sulject. A class for the instruction of science masters in the methods of teaching is held for a month each year in the Victoria College of Science at Nagpur special class for training high school teachers in geography (a particularly ill taught subject) has been opened at Dacca and is said to have done good In order to produce efficient mariers who would combine a knowledge of English with Persian and Arabic two years courses were opened at the Dacca and Chittagong madrassas but have not proved successful. same time, the bulk of the teaching is directed to the attrinment of method applicable to all subjects indiscriminately. For the trained teacher when he joins his school is often placed in sole charge of the work of a class such an arrangement is desirable in junior classes in the higher standard, a certain amount of specialisation is an advantage

Effects of training

478 The reports speak highly of the work of trained teachers strength of the staff and the possibility of bestowing individual attention upon pupils in comparatively small classes render good results possible aminers of the Lucknow college say - Taking it on the whole the results of the practical examination this year are very encouraging. The training given has evidently been of a very practical and stimulating nature and the pupil teachers themselves are evidently quite conscious of the benefit they have derived from their course They have at any rate learnt to handle their classes properly and have gained ideas as to what to aim at in their lessons and what to avoid They have learnt how to prepare a lesson and how to use their black board and how to make use of illustrations have seen a variety of methods employed and their ideas have been enlarged They have gained confidence in themselves and have learnt to take pride and interest in their work. The influence of trained teachers upon the instruc tion of the institutions they subsequently join is beneficial The weakest point of the system" says the Bombay report " may be described as the turn ing out of enthusiastic reformers impatient of ancient methods who are sent to schools where these modern ideas are regarded as heresies and these in novations viewed with dislike and district. It is desirable (says the prin cipal of the Bombay college) that headmasters know more of the work of the institution— it often happens that they require from men trained here—especially in English—the observation of conditions which make work on new lines unfruitful or impossible." The same report adds —

"In its endeavour to train and nelp the secondary teaching 'public' of Bombay the college has failed—owing to the indifference and apathy of the said public. Hun dreds of teachers—many of them in schools close to the college—could have attended (free and at convenient hours) six different courses in the most important branches of professional knowledge during the last three years of the quanquenium. In spite of full advertisement and cordial invitation the open lectures of the college were completely ignored by the untrained secondary teachers of Bombay. As the output increases and the scope of influence is widened, a tradition will spring up and the full influence of the training operations will be felt."

III -Vernacular training institutions

479 The trauming of vernacular teachers, like that of secondary teachers, Normal and may be regarded broadly as of two grades (a) Normal schools train those who elementary have passed the middle vernacular standard (if such are available) assistant schools and early schools and secondary schools and as headmasters of upper pri classes many schools (b) Those who have passed the primary standard are trained as elementary or lower primary teachers in smaller schools as apprentices in selected middle schools or in classes of lower grade at ached to normal schools Some provinces have arrangements for retraining vernacular teachers, or for giving short courses

480 Medras has 45 training schools (including the eight previously men. (i) Normal or tioned as belonging to the secondary grade—since all schools have the classes training below the grade after which they are named) The pupils number 2,303 schools Among these are both higher and lower elementary candidates Bombay has Among these are took might an above training school managed by government, and one managed by the American mission. The course is of one, two or and one managed of the American mission three years according as the pupil aspires to be held eligible for a rate of pay of Rs 12, Rs 15, or Rs 20 to Rs 25 a month

Leclustre of a school

Recursive of a school

Recu pay of his 22, as a school managed by the Baptist mission at Serampore which sends in no returns, there are eight such training schools in Bengal—seven managed by govern there are eight such training Sanonary Society Pupils number about 480 Those are admitted who have passed the primary standard and the course is of three years The schools were previously divided into those of the first of three years I he schools their standard and efficiency Only one government school and the school at Serampur are now classed as second grade There are seven normal schools in the United Provinces The number of pupils has been purposely reduced from 707 to 466, because the classes were pupils has been purposed, retained and because the lower number provides too large for encient instruction and upper primary schools. There are five enough teachers in secondary and upper primary schools. There are five normal schools in the Punjab, with 415 pupils. The stipends have been raised to Rs 8 and the course reddeed to one year. The eight normal schools of Burma have already been mentioned in connection with their anglo verna cular training classes Including those classes the total under training has count training cases including the reduction being partly the result of the reorgani sation presently to be described Eastern Rengal and Assam has five train ing schools, two of which are in Assam The number of pupils is 422 course is of two years save in the case of teachers where it is one year. The normal schools in the Central Provinces have recently increased from four to six, the new ones being a divisional school at Khandwa and an Urdu normal school at Amraoti The number of pupils is 364 An experiment is being made at two of the schools of a course reduced from two years to one year The Peshawar normal school instructs teachers of the North West Prontier

Province in a one year's course Though the number of stipends has been raised to 100, the number of pupils is 59—the middle standard being required for admission and the supply of those who can comply with this condition being limited The establishment of the elementary teachers' service and the opening of new vernacular middle schools will, it is hoped, remedy this school has recently been housed in a charming building called the Mihman Khana The illustration of this school is of peculiar interest Pathans of the frontier tracts who are destined to become teachers in remote

and insecure villages. In the centre are seated Sir George Roos Keppel, the Chief Commissioner and Mr Richey, the director of public instruction on the ground are seated the boys of the practising school.

(11) Louer vernacular institutions 481 Elementary teachers are trained in various forms of institutions If in employ they sometimes receive the pay of their posts sometimes a stipend which varies from Rs 5 to Rs 10 a month, the latter is also the arrangement for candidates. The training is imparted in the normal or truining schools described in the preceding paragraphs and also in inferior institutions Mr Orange described these latter as existing in Bengal the United Provinces. To this list must now be added Bombay. The special facilities offered may thus be divided into three classes.—

(a) training in normal schools

(b) training in special schools of lower grade

(c) training in apprentice classes

uning

at a normal school may subsequently find himself teaching in a lower primary
school Ordinarily however the ev pupils of these institutions are employed
in middle or upper primary schools. The system is especially found in
Madras Burma and Assam where (save for a few moritumed apprentice classes
and small schools for hill races in the list mentioned) the same institutions
truin higher and lower elementary teachers and are especially adapted for
this purpose and to a small extent in Eastern Bengal. It has also been
started in Bombay. Thus the 45 training schools in Madras which have
been already mentioned contrin lower as well as higher elementary classes—
the former for the reception of those who have passed only the fourth standard
and undergo a two years course.

The normal schools of Burma admit students of lower grade but no longer those who have passed only the fourth standard. Even for the primary course the initial qualification now demanded is a pass by the sixth vertacular studend. The reorganisation of which this reform is a part has already been described. It may be mentioned that in Eastern Bengal classes specially for elementary teachers have been added to the training schools at Duca and Chittagong. In Assam (as well as the other arrangements presently to be described) the two divisional training schools at Jorhat and Silchar contain special classes of sixty pupils where lower primary teachers and candidates are instructed. The former receive their full pay from the boards the latter stipends of Rs 6. The teaching is separate from that imparted to the higher pupil. The defect of the course is that it is only of six months and so makes lattle impression. Part of the reorganisa ton scheme framed by the Government of Eastern Bengal and Assam was to establish two large schools for lower teachers in this area with a course of one or two years according as the pupil has or has not been in previous

(b) Training in special schools of lo cer grade Also The system of special schools for elementary teachers exists mainly and the two Bengals. The institutions are called guru training schools and are described in Mir Oranges report. They were ill housed—for the idea was that they should be removed as soon as the truning of any area was accomplished. They were ill staffed—for economy forbade efficiency. They were fill ittended—for this total number of stypends tenable in each was ten the stipends were inadequate and the gurus were constantly absent attending to their own schools let these should be appropriated by others in their absence. The typend school was a ramshackle building of mud or bamboo containing their own schools let these should be appropriated by others in their absence. The typend school was a ramshackle building of mud or bamboo containing three the state of the school was a transfackle building of mud or bamboo containing three their own of the school was a transfackle building of mud or bamboo containing students of one room (senerally qurus of surrounding schools) and an elementary school for practising purposes in the other. In both provinces in provenients have been made during the period and further improvements are contemplated. Better buildings have been erected. In Bengal type plans were framed for schools and hostels construction and repair have been transferred from the decatation to the public works department over seven lakes have already been expected. The number of stupends has been increased to sucteen in each school. The number of stoplends has been increased.

(a) Training in norn al schools

to 201 (exclusive of three aided schools) and the erection of 100 temporary schools is contemplated Pupils inclusive of those in second grade verna cular training schools number over 3 000. It has been suggested that the pay of the head instructor be raised to Rs 40 a month In Eastern Bengal new buildings and hostels have been erected | Expansion has been attempted not as in Bengal by a large increase in the number of institutions but by doubling (in most cases) the number of stipends tenable in each of the 39 schools At the same time the course has been lengthened to two years save in the case of those who have passed the upper primary stage or have had at least two years experience of active teaching in which cases the course is for one year only The insufficiency of the output has only been partially cured the inefficiency of the staff remains A scheme has been formulated and has received the sanction of the Secretary of State to staff a number of these schools with officers of the subordinate educational service and to place the vernacular teachers upon a reasonable average salary of Rs 30 to enlarge each institution so as to hold 40 pupils to raise the qualification required for the limitation of the course to one year to the middle vernacular certificate and thus to provide for the simultaneous training of 1 600 students of whom 500 are to be teachers from upper primary schools 500 teachers from boards lower primary schools and 600 new candidates. The separate schools which exist in Assam are small institutions managed by government or by mission resources and intended for the training of teachers belonging to hill races. They are situated at Turi in the Garo hills Jaiaw (close to Shillong) in the khasi hills and at Kohima and Impur in the Naga hills. In Bombay towards the end of the quinquennium local normal classes were opened for the instruction of untrained teachers. Each class appears to be attended by seven teachers for a period of six months. The report does not describe the modus operands though it is said that the experiment is in its infancy and no definite opinion as to its success can yet be given There appear (though the figures seem to conflict with those in the general tables) to be 24 classes of

484 The apprentice system consists in the placing of candidates for (c) Training employ at selected vernacular middle schools where they can pursue their ordi in apprentice nary studies and also obtain a certain amount of instruction in method and classes practical experience. They are to be found in the United Provinces the

Punjab the Central Provinces and Assum Opinions regarding the efficacy of this course differ considerably Mr Wright says that in the Central Pro vinces there is a consensus of opinion that they are useless as a means of obtaining trained teachers They arose in response to the demand and were a cheap way of making up the deficiency They are now being abolished In Assam the system has always been regarded as a dead failure and has been in process of abolition during the quinquennium the classes attached to the two training schools being intended to take its place In the United Provinces on the other hand the system has proved so successful that it has been greatly developed in the last few years In 1907 there were 48 such apprentice classes with 274 pupil teachers in them In 1912 there were 109 classes with 649 pupils Lach school takes six pupils who receive small stipends of Rs 3 a It is possible that the success of the scheme in this province is due to two features-first the presence in each selected school of a special instructor trained in a normal school (his pay must be at least Rs 12 which seems little enough) and secondly the popularity of middle vernacular education in this province which has enabled the qualification for admission as a pupil teacher to be raised in practice from the upper primary to the middle certificate all but 27 out of the 649 pupils being possessed of the latter qualification Mr de In Fosse looks forward to an extension of this system to facilitate the general extension of elementary education

485 The courses in vernacular training schools differ radically from those (iii) General in secondary training schools First the instruction is given in the vernacular d anatemistes—for the teacher will himself instruct a vernacular school Secondly as the Courses previous education and intelligence of the pupils are altogether on a much lower level the curriculum is simple. It largely aims at imparting the actual knowledge which will place the teacher on a somewhit higher level than the pupils of the highest class he will ordinarily be expected to teach

It also concentrates on the very subjects and books he will have to handle Hence on its general side the course in all provinces provides for further instruction in the vernacular language arithmetic and simple geometry history geography drawing and drill. In several provinces a good deal of attention is paid to black board work and to simple manual training and the students of many institutions produce good raised maps and globes which they take back as a property to their own village-schools. According as the primary school curriculum demands elementary science agriculture (or rather nature study) land measurement the village map simple accounts the keeping of land records elementary hygene and botany may be added some of the Madras schools teach music schools in Burma teach Sloyd occa sionally an oriental classic is added and Bengal has permitted English as a subject in its training schools. On the professional side there is the study of a simple work on school management still more important there is the constant presence of the model school, which affords practice and demonstration. A monograph by Lala Tara Chand is added as appendix and the stream of the contraction of the contraction and demonstration.

Special subjects 486 Training in special subjects is hardly a desideratum for the verna cular teacher. There was previously in the Central Provinces an agricultural normal class attached to the agricultural college at Nagpur. It was intended for the teaching of village schoolmasters. It has been abolished because it is recognised that the teaching of agriculture is beyond the scope of primary schools and that nature study though a suitable subject is something different from agriculture. Instructors in nature study are now attached to four of the normal schools in the Central Provinces to all the schools in the Punjah and to several in Madrais. In 1911 a scheme was approved for training elementary teachers in Eastern Bengal and Assam in the delivery of lessons in nature study. A specially qualified professor was to be attached to the Dacca training college and to instruct the teachers of gure training schools etc. who would in turn impart what they had learned to the elementary teachers under their charge. It is not reported whether the scheme has taken effect.

Conferences

487 In some provinces steps are taken by means of conferences etc held by inspecting officer while on tour to effect a certain amount of training for untrained teachers or of re-training for those who may be expected to have forgotten the instructions imparted to them. Bombay reports that classes opened with this intention have been closed. The United Provinces report devotes some space to a description of conferences to which teachers are summoned to centres for such instruction. The opinions upon their efficacy are varied, and it is suggested that the annual lessors upon method constantly delivered by the same officer may pell upon the learners.

(sv) Effects of training

48. The efficacy of the training given in these institutions must naturally vary with the qualifications of the instructors and the care which inspecting officers can bestow. Another very pertinent problem is that of ensuring that the trained teacher actually adopts teaching as his profession. In some provinces as already stated agreements are taken but the most effective minner of avoiding this kind of wastage is the offer of reasonable prospects. In Bombay the rerived code of 1910 II has made truned teachers of the first and second year eligible for a starting salary of Rs. 12 and Rs. 1a respectively and the maximum pay of a third year man has been put at Rs. 25. The local boards have found difficulty in paying these salaries and the output of third year trained teachers has actually had to be limited in consequence. Similar rules are being introduced elsewhere. Mr. Prothero makes the follow in interesting remarks on the products of guru truining chools in Bengal.—

There can be no doubt that the standard of teaching in the primary schools.

There can be no doubt that the standard of teaching in the primary schools has improved by the introduction of trained garns. The weak point of the scheme lies in the fact that a large percentage of the trained aurus who pass through the school, do not return to their primary schools to teach but take in other employment. The money thus spent in their training is lost to government. In 1909 10 1352 aurus passed out from the schools with certificates of competence but the number of trained ar run actually employed in schools of all classes only increased by 585. It is thus clear that 740 aurus in that year sought other employment than teaching. Similarly in 1910 11

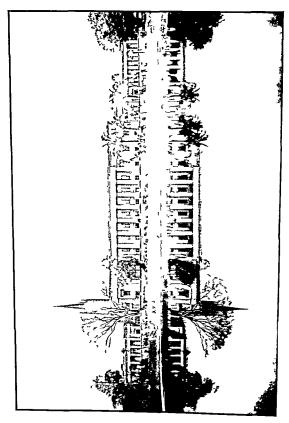
and 1911-12, 1,232 and 953 gurus respectively obtained certificates of competence, but the increase of trained terchers in actual service amounted to 944 and 521. The result was that during these two years government lost the services of 298 and 432 gurus whom it took pains to train." He further remurks that passed gurus are said to be employed in some numbers as mukhtars' touts

IV -- Special measures

- 480 The method under which officers of the Indian educational service Furlough permitted to study methods and developments in other countries was studies described in Mr Orango's review Such study is taken during furlough and advantages are offered for its encouragement. Between 1902 and 1907 eigheen officers had availed themselves of the opportunity thus given Since then three officers have been placed on such duty.
- 490 In certain provinces it is now the habit to insist on a certain amount Training of of training in the case of the subordinate inspecting staff. Thus we hear of the inspecting assistant deputy inspectors undergoing training in certain special classes in staff Bombay, sub-inspectors are specially trained at the Hare College, Calcutta, and in Erstern Bengil and Assam an examination has been prescribed for inspecting officers in vernacular literature, the art of teaching, discipline and organisation and the departmental rules and orders. The examination appears to have defeated a considerable number of officers.
- 491 Teachers' associations have been formed in Madras through the Teachers' agency of inspectine officers. Their objective is the general improvement of associations, teachers and the special study of the subjects of the curriculum which are comparatively novel, such as drawing, cricks and nature study. It is not uncommon to find such associations in connection with training institutions, the Hire College in Calcutta is an instance in point. In Bombay there is a somewhat similar association (not all the members of which are teachers) for the discussion of current educational problems. The Punjab has headmasters associations of which the report says.

"These associations were started in 1908 in the larger educational centres of the province. Membership is not restricted to headmanters inspecting officers and others who are inferested in education-being also included. The objects of the associations are to afford scope for focal expressions of opinion on educational questions and to promote harmonious relations between the authorities of the local secondary schools. They are the inspectors' advisory councils, and they have put forward many useful suggestions which have been adopted sub-sequently by the department. Many such local conferences have been such that province and it may be safely asserted that they have done much to promote good feeling between schools and to stimulate interest in educational matters!

THE STAFF AND STUDENTS~SANSKRIT COLLEGE, CALCUTTA



THE CALCUTTA MADRASSA

CHAPTER XII .

ORIENTAL STUDIES

492 From ane ent times till after the advent of British rule oriental Introductory learning enjoyed the patronage of kings and the nobility—naturally for some of the classic tongues were the language of the polite just as Latin long survived as the literary language of Europe. The orientalists of those times employed themselves in the writing of books and of commentaries critical research in the modern sense was unknown. Early servants of the East India Company preserved the tradition and founded schools of oriental study—writ ness Warren Hastings **Uadrassz** in Calcutta** Then came the movement among the Bengalis for Linglish education Lord Macculay's minute and the despatch of 1854** Fublic interest and state patronage alike were writhdrawa from oriental learning and transferred to places of utilitarian education. The study of the classics in India was left not wholly but largely to decay while it was in Europe that a new school of research arose and in European universities that orientalia began to attract increased interest. The following para graphs however will show how strongly (though often in hidden places) the literary cult has persisted the efforts of government to organise it and the recently awahened consciousness both of its value and of its defects

493 The teaching of oriental languages is carried on in ordinary and in Study of special institutions. First classics and vernaculars are learned in secondary classics in schools and in colleges Some classical language-Sanskrit Arabic Pali ordinary Persian Hebrew Armenian Avesta or Pahlavi-ordinarily though not inst tutions always forms a subject of examination at the matriculation and save in the case of science students at subsequent university tests. A vernacular is also insisted upon in the Calcutta University as compulsory in the intermediate and B A standards In the Madras University a vernacular was compulsory in the intermediate until 1910 when the regulation was changed because it was found to discourage the study of Sanskri. The papers in Sanskri at the Calcutta BA exa ruation are —(i) poetry texts including portions of Manu et and translation from English into Sanskrit (ii) drama texts (viz a selection (1 two from Saluntala Uttararamacharita Mudrarakshasa and Ratnarali) and another translation into Sanskrit (112) translation into English of prose passages from unprepared Sanskrit books grammar and outlines of the history of Sanskrit literature The honours course prescribes in addition selected portions of Bhattil avya and Kadambari and another translation into Sanskrit selected hymns from the Rigreda with Sayana's commentary and grammar and rhetoric The BA course in Arabic comprises the Hamass the Dizan of Mutaribbi and the Dizan of Abu Atahiya the Koran the Magamat Hariri Tabaris history Qazwinis geography and grammar In addition to this the honours course requires the Seven Mi allagat Banat Stad the Diwan of Ibn Faridh the Koran with the commentaries of Baydhawi and Zamakhshari Ibn Hishams Life of the Prophet the Muqaddima of Ibn Khaldun the Mulhtasar ul Maani prosody and rhetoric the outlines of Muhammadan history to the full of the Abbasid Caliphate and a general knowledge of the history of Arabic literature The knowledge of the classics thus acquired however does not carry the respect and estima tion commanded by the pupil of the special institution though it gives some acquaintance with the language it does not profess to confer any great depth of scholarship nor unless aided by further study conducted on other lines would it naturally fit its recipients for research

494 It must not however be supposed that the universities make no Provision by provision for further study. The courses of instruction for the M.A. in universities for Sanskrit Arabic eta attain a high standard. Moreover special provision is further studjeccasionally made. The Calcutta University has in recent years appointed from time to time readers to deliver lectures on certain branches of study—ancient o iental nstronomy Bengali interature Nyagy and Buddhist Mahaya.

nst philosophy At Bombay the Wilson philological lecturership and eleven scholarships including the Springer research scholarships are endowed for language study. The Madras University has recently instituted title carainate in oriental learning and has adopted a scheme (which has not yet materialised) of lecturerships and post-graduate studentships. There is also the Premchand Roychand research studentships and a fellowship for the study of Sanskirt. The Punjab University has a special oriental faculty presently to be described and awards annually Rs. 2 000 for the encourage ment of vernacular literature. There are also four scholarships and a grant for the encouragement of the study of Vedic and Yunani medicine. The University of Allahabad has the Sadho Lal readership.

Funding of the conference of orientalists 495 The conference of orientalists which met at Simla in 1911 considered that Indian universities have not achieved much in this line of study. Their main work has been the framing of courses and the conduct of examinations destined to prepare or to test aspirants after an official or professional eareer. They have included the classics (not excepting Latin and Greek) in their courses their constituent colleges contain professors of excellent attainment but they have done little to extend the field of knowledge. Oriental scholars of note are few in India. Of the best known of those in recent times—Sir Ram Krishny Bhandarkar Dr. Thibut Dr. Venis and the late Raja Rajendra Lal Mittra. the first three indeed have long been closely associated with university and college work the last educated at a medical college appears to have derived his inspiration from his connection with the Asiatic Society of Bengal.

Special snetitutions

496 Secondly there are special institutions. Under this category fall the oriental colleges (figures for which are given in General Table III) cer tun of the other schools (under head school education special) and the e private institutions which are shown as concerned with advanced teach ing Of the first class of these there are 17 with 1 452 pupils of the third 2 634 with 55 200 pupils the numbers in the second class are indeterminate There are likewise the Koran schools in number 8 288 with 168 406 pupils These however are religious rather than educational imparting by rote a verbal knowledge of the necessary suras of the Koran without teaching the The majority of the pupils are sent there not o meaning of the Arabic learn what is useful but to fulfil a religious obligation. The institutions mentioned above vary in character and efficiency. But all or nearly all have this in common that the instruction given is along traditional lines and is imparted by pandits and maulvis of the orthodox type who are seldom acquainted with the English language st ll less with modern methods of teaching and research. The commonest types are the tol and the maktab In the tol the pandit instructs a few pupils in Sanskrit-ryalaran (grammar) harya (poetical literature) tarka (log c) darshan (philosophy) nyotish (astrology) and aushadha slastra (medicine) The pandit is a Brahman and (astrology) and ausmana s astra (medicine) The pandit is Brahman and I so office is often h reditary. His pupils are Brahman and generally live with him and regard him in loco parentis. Perl aps it is partly the exclusiveness and hereditary character of it ese institutions which must be level of culture both in pupil and teacher. The scholarship must be of a garrow type and woo by laborious means but its deep and present democratic type of the scholarship and the properties of the scholarship and the properties of the scholarship and the sc The maulti gathers the Muhammadan children of the village under the shadow of the mosque and teaches them along with the repetition of the Loran and probably a little Urdu such store as he possesses of Persian or even of Arabic Only in the higher institutions can the instruction be described as advanced. And these small Muhammadan schools are (unlike the tols) capable of conversion into regular village schools imparting vernacular instruction not necessarily to the loss of their more special studies 19" Move there are the larger and more important institutions. The

Sanskrit colleges 10° those these are the larger and more important institutions. The tots blos om nito Sanckirt colleges—in results magnited tots possessing several teachers instead of one and a score or two of pupils instead of a mere half dozen. The subjects and the methods of study remain much the same. Among other careers those of family priest (purohit) and doctor (baud) are open to the students. Most of these schools are still purely indigenous in character and have been maintained from former times

as centro of repute Such are the colleges in Nawadnip (Nadia in Bengal) where however government maintains certain professors. Others are of modern growth and are generally attached to arts colleges though separate from them Such is the Sanskrit College at Ca cutta whose affiliation was extended from the intermediate to the BA during the quinquennium its professors being lilewise utilised as university lecturers for the MA in Sanskrit while at the same time it has an oriental side which prepares students for the examinations held by the Sanskrit Board presently to be described. Such is the Hemant's Kumari Devi College at Rampore Boalia which is connected with the Rajshahi College. Such also is the Sansl rit College at Benares of which the principal is also principal of the Quans College—an arts institution. There a course of six years leads up to an acharya examination. There is also an anglo Sanskrit department. The Central Hindu College at the same place has a department for Sanskrit studies on indigenous lines At Pilibhit (United Provinces) there is a large Sanslrit school-the Lalit Hari Pathshala The Muhammadan Anglo Oriental College at Aligarh has made special arrangements for the pur uit of Arabic and with assistance from government has secured the services of a German scholar

498 The Arabic institution which answers to a Sanskrit college is the Madrassas madrassa This differs materially from the maktab not only in size but also in efficiency and subject matter of instruction. Madra sas flourish in the United Provinces where is the Arabic school of Deoband enjoying an almost Asiatic reputation and drawing many of its pupils (who number in all 600) from beyond the confines of India In the same province is the Nadwa the Imam ul Madaris the Syed ul Madaris the Nur ul Madaris and the Islan ia school at Amroha In Bengal the famous Calcutta Madrassa founded by Warren Has ing, still flourishes and there are similar madrassas at Hooghly and (in Eastern Bengal) at Dacca and Chittagong These last are government institutions contain many hundreds of pupils and generally have an ordinary high school for Muhammadans under the same roof and management are partially supported by the Mohsin fund—an endowment made by one Haji Muhammad Mohsin the pious son of a rich Persian merchant who settled at Hooghly The dense Muhammadan population of Evidera Bengal manutains other madrassus under private maniferement Sind another stronghold of Islum possesses madrassus—some under the munigement of local boards The course in the madrassa includes Arabic and Persian litera ture Muhammudan law logic rhetoric philosophy geometry Hadis (sayings of the Prophet) and Tafsir (commentaries on the Koran) etc. The spectacle presented by these madrassas is described in the clapter on Milhan madan education (to which reference is also invited on the subject in general) The maulers are men of reverend aspect. The pupil sometimes of mature age hears the les on with almost devout attention Public charity helps to sup port the institution local Muhammadans giving free board and lodging (mair) to the students who drawn from neighbouring villages intend to devote their lives to the sacred calling of a mulla or to some other career which if not obviously utilitarian at least carries respect or veneration

499 In this connection may be mentioned the teaching in some of these Teaching of schools both Sansarit and Arabie of the Avariedic and Junius vistems of Inpuricule and medicine. These are still partonised by vist numbers of the people and are Junius largely practised in Bengil. And in other parts of India the profession systems of appears to flourish. The director of the Punjah says. The Junius extern medicine of medicine is trught in a class at the Islamia Collece Lahore which is subsidised by the university and in the Madrassa i Tübbiya Delhi which has 130 students against 71 five very are. Modern surgers and the names and noncerties of common Farlish medicines are said to be trught in the latter institution. Vedic medicine is trught in a class attracted to the Day around Aprelo Vedic College. Lahore—The number of students has risen from 11 to 44."

500 Such are the special schools for oriental studies. There remains to Orienta be mentioned the interesting though somewhat melancholy experiment which College has been made by the Punjab University. This university maintains an Labore oriental college in connection with an oriental faculty. "The oriental col

lege says Mr Godley, embodies the intentions of the original promoters of a university scheme for the Punjab and as such is an interesting survival, it is lacking however in vitality and is chiefly kept alive by the aid of scholar ships and stipends. The college has three functions. It prepares the students for the various oriental title examinations of the university and also for the oriental degrees of B O L and M O L which were supposed to represent the attainment of European learning through the medium of the vernacular languages while it also undertakes the instruction of the arts students of the government college in the classical languages of the east Owing to the failure of the oriental degree courses as formerly constituted to attract candidates the regulations were changed during the quinquennium so as to make these courses include a knowledge of Inglish combined with Indian history and oriental languages The result has not been encouraging only four students having obtained the degree of B O L during the period and one the degree of M O L and it is fairly evident that the revised courses are hybrids which do not at present appeal to students of either the The number of students in the title classes on the other old or the new type hand has shown a marked increase especially in the case of Sanskrit where the number rose from 36 to 66 the Arabic class also increasing from 18 to 24 The instruction given to the government college classes is not considered to be satisfactory owing to the teachers employed in the oriental college being unacquainted with western methods of study A reorganisation of the oriental college with a view to securing the services of a staff uniting the virtues of old fashioned crudition with those of modern scholarship is engag ing the attention of the university Such a staff would it is thought be able to undertake the advanced teaching of oriental languages in the adjacent arts colleges without neglecting the interests of the mauleis and pandits of the old school

Defects of the 501 Thus classical study in India takes two forms It is pursued in the present system universities as a part of the ordinary arts curriculum. The teachers are men of erudition The student is conscientious But so far as learning in the wider sense is concerned he is beset by two difficulties. First as pointed out by Dr Venus his dully round of lectures may present him with a play out of Shakespeare and a dish up of Aristotle or Kant or some period of modern European history and finally the Sakuntala and the Kirata His Sanskrit thus links on to nothing in the prescribed 'course and can find no mental context for itself Second before he has formed the habits of the true student he is hurled into the work of life and into a society that recks little of the quiet and steady pursuit of literature. When the stress of a profes sional career is over and it is time to see about the sacrifices his knowledge and his energy have departed Again here and there in the villages or in some quiet corner of the town the old system persists. Here to quote again from Dr Venis the scholar must not only understand his texts but he must carry them about in his head the ipsissima verba and so too the traditional interpretations and the many other things which he learns from his gurn and which still find no place in dictionary or modern work of reference Looked at from the numerical standpoint, both systems continue to attract Of university students in British India 19201 are studying some classical language against 11 729 five years 120 In advanced private institutions there are 55,250 pupils against 50 792 And the numbers in some of the And the numbers in some of the public madrassas have greatly increased But in the one system the study is patchy and soon forgotten as the English business man forgets the Greek and Latin he learned at school In the other it is steady and deep but lacks the breadth and strength of current to carry it into the channels of a newer culture

Attempts at improvement 502 Further it has long been realised that the traditional pandit lore rich as it is in possibilities lacks organisation and guidance that there is consequent waste of effort and that many a scholar and his work are born to waste their sweetness in obscurity The experiment in the Punjab University is partly an attempt to remedy this defect For the madrassas under govern ment control principals have been selected who are not only oriental scholars but also men of general erudition Grants are likewise given to some of the indigenous tols colleges and madrassas In Madras Sir A Bourne referred

reproach that that Presidency is behind other provinces in the matter of Sanskrit studies Its report is under consideration. There are four other ways in which attempt has been made to systematise and vivify the latent power which undoubtedly exists in the country These deserve special 503 (i) Examinations and titles - The Viceroy confers the titles of (i) examina

Mahamahopadhyaya and Shams ul ulama (which may be translated as tions and titles Most mighty teacher and Sun among the learned) upon distinguished scholars in the oriental classics These titles were created in 1887 to com

memorate the Jubilee of Her Majesty Queen Victoria's accession

Other bodies are also permitted to hold examinations on the results of which distinctive titles and stipends are awarded. In Bengal the past five years have witnessed a remarkable development under the Board of Sanskrit Examinations and the history of this movement is noticeable as indicative of the response which follows attempts at organisation and the renewed interest which Sanskrit studies have recently evolved In 1878 at the sug gestion of the late Mahamahopadhyaya Mahesh Chandra Nyayaratna the Government of Bengal introduced the system of title examinations There upon there spring into existence a number of Sanskrit associations (sabha or samaj) These arose at Bankipore (1878) at Dacca (1878) - at Nawadwip (1885) at Bhatnara (1890) and elsewhere *

These associations were recognised for the presentation of candidates and at first selected the text books appointed the examiners and controlled the The system however afterwards came to be organised and centralised under the principal of the Sanskrit College Calcutta In 1908 the Government of Bengal constituted the Board of Sanskrit Examinations for the conduct of the examination the affiliation of tols and the award of stipends and scholarships. The examinations are of two kinds-first those on the results of which stipends and grants are awarded (these stipends are on the results of which suppose and glains are wanted these supposes are principle government and aggregate its 24000 a year) second the title examinations success in which earns the titles havyatitha Smrittirtha etc and likewise prizes towards which (and towards the general expenses) government contributes its 2500 annually while others are offered by the large landed proprietors etc who are interested in Sanskrit studies 1907 the number of examinees was 4 274 in 1912 it was 7 553 The report of the Board from which these statements are taken gives some striking figures showing that numerous tols have been started in districts which had long been strangers to such education In Bengal and Eastern Bengal and Assam the Board now deals with 1 300 tols

There is similarly a Central Board of Examiners Bengal Madrassas Eleven madrassas in Bengal are permitted to present candidates The course for the highest examination includes among other text books parts of the Saba : Muallaqah and the Maqamat : Hariri specified chapters of the

Hidayah the Musallam us Subut etc

In the United Provinces the examinations held by the Sanskrit College Benares were transformed into public examinations in 1908 These have proved highly successful and now attract some 2 000 candidates a year from various parts of India Tests called the Fazil and Mulla examinations are I eld for Arabic and Persian students of institutions of the old type The prucity of candidates here in contrast to the number in Bengal indicates stagnation of these studies and a small demand for such qualifications Assam has its own system of examinations on the result of which rewards are given by way of grant to the teachers and by way of scholarship to the successful pupils

In Burma the Patamabyan examinations test monks and others who study Pali on the ancient lines The examination has a pre British origin and was held in Mandalay at the Kyauk taw gyi Pagoda At its eastern portals there still stand but on the verge of desolation the noble halls carved in teak and overlaid with gold in which the annual Patamabyan or examina

^{*}The Origin and G owth of the Board of Sanskrit Examinations Calcutta ssued from the office of the Board 1912

tion of monks and notices in theological learning was held. Here Ling Thibin took that degree which first brought him into n tice, and here during many years the pious monarch fostered the labours of the candidates. Now the examination is held at other centres also. There are four standards in all of which written papers are set and in three of which learned divines hold an oral test. A committee controls the examination. The government gives money row rids to passing in those test or where a succe still candidate is forbidden by his habit of life to take money. I res nts of robes books

Besides these there are examinations held at other places and by various bodies. And quite recently the Madriss University has adopted regulations instituting examinations and the bestowal of titles for oriental studies pursued for four years liter the passing of the matricultion. The original metention in fruming these regulations was that the proposed titles should encourage the study of oriental languages and literature on indigenous lines but the view was successfully advanced that the university should seek, to introduce among analits and mauleis the more critical methods of European energials. The examination will first be held in 1915.

(11) inspection

504 (ii) Inspection—In some provinces there are specially qualified inspectors to visit the indigenous schools and give advice and aid. This is easier in Madras and in Bengal and during the period has become so in the United Provinces. In Lastern Bengal a few inspectors of Arabic and Persian teaching schools were experimentally appointed during the aumanumnum

(ui) scholar ships

500 (111) Scholarships -The universities and the Local Governments en courage successful study by scholarships and stipends The Government of India hi ewise award two scholarships a year each of the annual value of £150 for two years oriental study in Europe—that is to say there are always four scholars working in England or some other European country and of these scholars three are studying Sanskrit and one is studying Arabic intention of the scholarships is to enable the holders to acquire the critical and scientific methods of western scholarship by studying the classics under European professors and by acquiring a knowledge of French and German" The Sadho Lal scholarship endowment trust was described at length in the last review it was founded for the study of Sanskrit at the Sanskrit College Bernres and was to be ledd by Brihmms who are graduates or Sanskrit title holders. There are other endowed scholarships of a like nature Archvology and epigraphy may justly be included in the connotation of orientally. In 1903 the Government of India structioned three scholarships. for study under the archeological department. Just after the close of the quinquennium the number was raised to four of which three are to be held by Sanskrit scholars and one by a Persian or Arabic scholar The scholar ships are of the value of Rs 75 a month and are tenable for one year but may be extended for a further two years the amount being then rused to Rs 100 a month The intention is the employment of Indians in the archeological department The Government of Burma has instituted a similar scholarship of Rs 100 a month rising to Rs 125 in the second and third years should extension be granted

(w) grant in

506 (c) Grant in aid — It is impossible owing to difficulties of classification to state the amount given as aid to oriental institutions. But in riddition to the special scholarships already mentioned indigenous institutions are encouraged by grants which frequently take the form of stipends for teachers and scholarships for pupils awarded on the strength of examinations. In some provinces e.g. the United Provinces and the Punjub grants are given under rule to indigenous schools of various kinds including oriental schools. In the Bengals not only are fixed grants given to certain well known institutions (such as the colleges at Navidwp and Bhatpara the Kabindra College at Golia in Britanganj and the Jagatpur Asram in Chittagong the last peculiar for the number and success of its female students) but stipends and scholarships are also distributed. In the Bengals fifty stipends of Rs 6 and Rs 8 a month and tharty four stipends of Rs 10 and Rs 12 a month.

V C Scott O Connor Mandalay page 58

are awarded, on the result of the first and second examinations respectively of the Board of Sanskrit examinations, to the teachers of successful pupils, while sixty scholarships of Rs 2 a month and thirty nine scholarships of Rs 3 and Rs 4 a month are distributed to the pupils themselves who distin guish themselves at those examinations The system has not been extended to Assam because the system in Assam tols where a pupil is instructed in various branches of learning at the same time differs from that prevalent in Bengal, where the pupil specialises to a high standard in a single branch But government holds examinations adapted to local conditions on the results of which fifteen stipends of Rs 6 to Rs 8 a month and seven stipends of Rs 10 to Rs 15 a month are given to teachers of tols, and fifteen scholarships of Rs 3 a month to pupils Similarly successful teachers in the madrassas of Assam receive eight stipends of Rs 7 to Rs 10 a month, and nine scholar ships of Rs 3 a month are awarded to pupils These particulars are given as illustration of a form of aid found suitable for institutions where perhaps examination alone can furnish the test of efficiency. Aid is also given to maktabs, as described in the chapter on Muhammadan education, but for their secular rather than their oriental teaching

507 These efforts notwithstanding, there has recently arisen a spirit of Conference of dissatisfaction in regard to the study of oriental languages in India It has orientalists, taken two apparently antagonistic forms One is a feeling of disgust at the 1911 inutility of a type of knowledge which is regarded as outworn, which leads to no useful career and the very opportunities for whose acquisition tend to divert students who might otherwise qualify themselves to be benefactors of their community This feeling has manifested itself among Muham madans in certain parts of the country and indicates the rapid permeation of new ideas The admixture of useful secular subjects is advocated other is a feeling that India has lagged behind in the study of her own or her adopted classics and that this reproach must be removed by new efforts, that the idea of education is too narrowly utilitarian and that those also serve who seek, not riches, honour or power, but knowledge for its own sake. In fact, there has been a quiet but effective re awakening to the advantages and the needs of classical study In July 1911 Sir Harcourt Butler summoned at Simla a conference of orientalists which was attended by distinguished scholars from every part of India At this conference the distinction was emphasised between the modern college bred scholar with his broader views, and the pandit and maulvi, nurtured in the old methods and possessed of deep knowledge Dr (now Sir R) Bhandarkar urged the retention of the pandit, as possessing a depth of knowledge which is lucking in the modern scholar, and as capable of giving substantial help. At the same time he considered there had been deterioration and that some improvement should be wrought The general opinion was that whatever reforms may be introduced, the old type pandit and maulus should be made, in their way, as efficient as possible before general knowledge or the teaching of English was superimposed, in exceptional cases, and after they had fully acquired the traditional learning, their outlook might be broadened by wider knowledge, by the study of modern languages and by critical research, but even for these few, Linghas should not be encouraged at too early a stage. The addition of epigraphy, nums matics etc, as voluntary subjects, was recommended. The preservation of the ancient learning (which is vital) and its development might be encouraged by enhanced government aid an extension of the systems of special inspectors and scholarships the raising of the salaries of oriental teachers, and the granting of certificates and titles But the conference went much further It advocated for the cultivation of the classics and the production of original scholars, the establishment of an oriental research institute somewhat on the lines of the Ecole d Extrême Orient at Hanoi or the Oriental Institute at This combined with local schools, would form an attractive Vladivostock meeting place for European and Indian scholars promote an intellectual atmosphere concentrate effort offer a welcome environment to those trained in the traditional school imbue the elect among them with the spirit of criti cal research and exercise an inspiring influence generally upon the study of orientalia throughout India The foundation of such an institution has been approved in principle

508 No recount of oriental studies in India would be complete without Other measures and institutions some brief mention of the preservation of manuscripts and ancient buildings, for oriental societies and publications studies

(i) Preserva tion of manu scripts

509 (i) Hanuscripts -- Madras possesses a good library of manuscripts The staff in charge of it has recently been reorganised by government, and Rao Bahadur Rangachariar is making a catalogue The library is doing useful work Dr Otto Schrader is in charge of the Theosophical Society's library at Adyar and is issuing catalogues. In Bombay Presidency, the Deccan College has 10 000 catalogued manuscripts Bengal is rich in libraries Government has collected about 10 000 under the superintendence of Mahamahopadhyaya Hara Prasad Shastri and others, these are being catalogued The Sanskrit College possesses a catalogued library The Asiatic Society of Bengal receives a grant from government for the collection of manuscripts. The work is conducted by Dr. Ross who is also cataloguing the famous library of Arabic manuscripts at Bankipore Another Arabic library also catalogued is at the Calcutta Madrassa, there is an interesting collection (containing a number of Tibetan works) at Bishop's College and another at the Serampore Theological College The Government Sanskrit College at Benares has a fine collection of over 5 000 Sanskrit manuscripts The Government of Burma possesses a considerable collection of manuscripts (mainly in Pali and Burmese) which is being catalogued by M Duroiselle, lists of manuscripts in monasteries and private houses are also being made with a view to future purchase Much therefore is being done Govern ment have on an average spent about Rs 17 000 a year on the collection and preservation of manuscripts and part of the subventions made to societies (presently to be mentioned) are doubtless spent on this object. But much more There are many fine libraries-some of them in native states remains to do -which have not yet been catalogued (an instance to the contrary is the Sanskrit library at Jammu catalogued by Sir Aurel Stein) Further there is little doubt that could adequate search be made great numbers of valuable manuscripts would be found scattered about the country The compilation of catulogues raisonnés and the steady collection of manuscripts would be one of the functions of the oriental research institute

(11) Preserta buildings

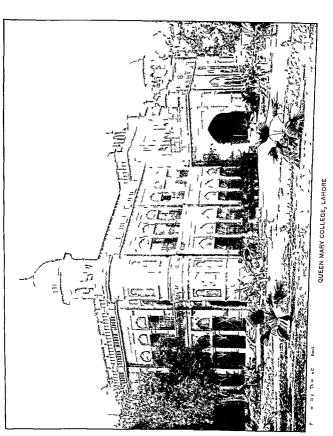
510 (11) Archaeology -- It is impossible here to do more than merely men tion of ancient tion a subject for the pursuit of which a separate department has been created and has accomplished a great work in excavation and preservation has already been made to the archeological scholarships given by government The proposed institute would probably be utilised for training and research in archeology epigraphy and numismatics

(111) Societies

511 (111) Societies - The Bombay branch of the Royal Asiatic Society (which also has an auxiliary at Madras) and the Bengal Asiatic Society are the most important Government aids the second of these institutions with annual grants amounting to Rs 23 200 for various objects and with special grants on particular occasions. Within the last few years an Indian Re search Society has sprung into being in Calcutta Other societies of import ance are the Punjab Historical Society and the Burma Research Society There are also local societies the sabhas and samajas which specially exist for the cultivation of Sanskrit and the Muhammadan anjumans

(1v) Publica tions

512 (iv) Publications -The Epigraphia Indica the Epigraphia Indo Moslemica and the annual report of the Archæological Survey are issued at the expense of government Other journals are the Indian Antiquary (published in London) Indian Thought (published at Allahabad) the journal of the Punjah Historical Society and that of the Burma Research Society the outrails of the Bombay branch of the Royal Asiatic Society and those of the Bengal Asiatic Society together with the Bibliotheca Indica published by the latter Recently too there has been some noticeable activity in the re publishing of texts etc by certain private societies



A NATURE LESSON



CHAPTER XIII

EDUCATION OF GIRLS

I ...General

513 It is customary to commence any dissertation on the education of Obstacles to Indian girls and women by a recital of its difficulties There is no reason girls' for departing from this practice, for the topic, if monotonous is the key note education to the whole subject. The following remarks quoted by Mr Orange, still largely hold good -

"All efforts to promote female education have hitherto encountered peculiar diffi These difficulties arise chiefly from the customs of the people themselves The material considerations which have formed a contributing factor in the spread of boys schools are inoperative in the case of girls. The natural and hubble desire for educa tion as an end in itself which is evinced by the upper and middle classes as regards their sons is no match for the conservative instincts of the Muhammadans the system of early marriage among the Hindus and the rigid seclusion of women which is a characteristic of both. These causes prevent any but the most elementary education from being given to girls. The lack of trained female teachers and the alleged un su tability of the curriculum which is asserted to have been framed more with a view to the requirements of boys than those of girls form subsidiary reasons or excuses against more rapid progress. To these difficulties may be added the lehef perhaps against more rapid progress 10 cuses unmounter may be anote in eleme permaps more widely felt the expressed that the general education of women means a social revolution the extent of which cannot be foreseen 'Indian gentlemen'; that she end well sand 'may thorough it allow that when the process has been completed the nation will rise in intelligence in character and in all the praces of life. But they are none the less appret easier that while the process of education is going on while the lesson of emancipation are being learnt and stability has not yet been read ed while in short society is slowly struggling to adjust itself to the new conditions the period of transi society is slowly struggling to adjust itself to the new conditions, the period of transition will be marked by the loosening of social ties the upheaval of customary ways and by prolonged and severe domestic embarrassment? There is it is true an advanced section of the community that is entirely out of sympathy with this view. In aban loning child marriage they have got rid of the chief obstacle to female education, and it is among them consequently that female education has made proportionately the erretted progress in quantity and still more in quality. But outside it is small and well marked class the demand for female education is much less active an a popularious.

In fact the people at large encourage or tolerate the education of their girls only up to an age and up to a standard at which it can do little good or according to their point of view little larm

514 Opinions are varied as to the amount of progress made during the Progress quinquennium The report from Bombay is somewhat pessimistic quinquennium under review has been a period of slow progress in the educa-tion of girls the slowness has been more marked than the progress I do not regard the fact that a few more women annually sit for the B.A degree as indicating anything more than that among the upper and educated classes degree attempting is becoming fashionable and that the daughters of a few professional men are taking to professions (medicine teaching etc.) while the great mass of Indian womanhood remains almost untouched and apparently almost inaccessible It will thus be seen " Mr Prior concludes that the whole question of Indian female education in this presidency is

unsatisfactors and the obstacles in the path of its progress are well night insuperable. The inspectress in the United Provinces where the proportion of girls under instruction is much smaller than in other provinces writes -

It is difficult to say whether there is any real change in the general feeling as 'It is difficult to say whell or there is any real change in the general feeling as regards guits education during the quanquenium but I think one may concile as least that apoths is taking the place of anyonism with many and that among a small minority its need is accepted. 'Amongst the best families of a lig city work as I ucknow there is a growing demand for some further means of educating the guits an ordinary who is letter than a smalle and this because otherwise marriage properts decrease in all the special communities again female education is part of the programment in the contract of the translation or the orthodox Hinds even the Minhamagher is sufficiently advanced make it such. Of a less noticeable character is the interest of various contractions and the programment of private individuals shown in their genuine care for the small schools under their management which are to be found every here and there I cannot compare their number with that of the previous quinquennum but my general impression is that it is growing Finally the disficulty in establish ag a school is not to fill it with children but to supply the staff given a good tercher the children will come and the parents will not object. Nevertheless the returns for the quinquennum show that in female education it is still a case of here a hittle and there a hittle line upon line and precept on precept. There is no general impulse towards it as yet.

Mr de la Fosse discussing the difficulties that underlie the problem includes among them the strangeness and repugnancy to oriental thought of single women earning their livelihood apart from their families and dives far deeper into ultimate causes when he quotes the prejudices that exist—the ideas for instance that the educated woman is likely to be childless and that her husband is likely to die young The report however adds that a change, however slow and gradual is taking place and that there is no need to despise the day of small things. Sir A Bourne perceives symptoms in Madras of an advance in public opinion though the leaders of Indian thought have not so far done much in the way of giving practical effect to their views Mr Godley also notes a very marked development of interest as betokened by an unexampled mereuse in attendance at girls schools "The progress recorded during the quinquennium indicates the beginning of a transforma tion of the popular attitude towards the education of women a change which is particularly noticeable in the case of the upper and professional classes The increase of school attendance the prolongation of school life the readiness to provide funds to start girls schools all denote that stagnation is being replaced by activity and great development may be looked for in succeeding Again the report from Eastern Bengal and Assam says

The profit the system of cluld marrage and the general indifference of parents to the educate on of their daughters still act as checks to progress but that there has of recent years been a marked change in the att tude of both Hindas and Muhammadans to this question there can be no doubt. Parents are gradually awakening to the fact that the education of their daughters is as much a part of their daity as the education of their sons. They have real sed though dimly that education need not make their gris more independent of their lawful gui rilinass or less observant of established customs and domestic duties. And their himself and be practical experience that with the progress of how education, the selection of a brise now andars depends no less upon the control of the control of the progress of how and the control of the selection of a brise now andars depends no less upon the control of the

(b) Numbers

515 Thus much for opinions Turning to hard facts we see that in the past five years the number of girls schools (public and private for Europeans and Indians) has increased from 12 440 to 16 073 Among these public institutions have risen in number from 10 681 to 14,113 All provinces share in the increase of 3 633 schools (see supplemental table 161) Eastern Bengal and Assam accounts for 2 100 schools out of the total increase and now shows 5 240 schools-more than any other province During the decade 1892 to 1902 the number of girl oupils (both in girls and in boys schools) rose from 339 031 to 444 470. In the next decade it more than doubled rising to 645 028 in 1907 and to 952 911 in 1912 (see supplemental table 163) (These figures are for European and Indian girls The former number only 16,210 Their inclusion does not affect the general accuracy of figures for Indian girls save in higher institutions where discrimination will be made) The increase during the quinquennium has been by 47 7 per cent Perhaps the opinions quoted above are coloured by the figures The increases in Madras and the United Provinces were equivalent to 376 and 354 per cent respectively in the Punjab to 44 6 per cent in Eastern Bengal and Assam to 93 8 per cent Coorg has also increased its pupils by 73 1 per cent during the quinquennium Madras and Bengal still lead with 226 685 and 194 114 pupils respectively

The statement below shows for each province the number of girls under instruction both in boss and in girls schools the percentages of these to the girl population of school going age in 1907 and in 1912 and the percentage of increase in numbers

	15	ю	19	1		
Pro pe	Number of g s at schoo	Perceptage of gir s at a h o og popula- om (scho) go ng age	Number of g = a choo	Percen ag of g sat school to g ri pop s- t sa of schoo going age	Pere plage of nervase i nervase i nervase school	
Madras	161 706	0.7	226 68o	73	37 6	
Bembay	108 16	5.9	153 090	78	408	
Bengal	97 800	31	194 114	46	519	
U ted Provi ces	40 111	12	54 329	19	3o 4	
Punjab	37 983	260	53 909	40	416	
Bur a	62 94	814	79 416	89	26 4	
Eastern Bengal and Assam	79 360	35	153 66	61	93 8	
Central Prov ness and Bersr	19 634	19	30 847	26	571	
Coorg	1 118	52	1 935	10-4	73 1	
North West F ont or Prov nee	3 506	299	4 820	30	87 a	
Total	645 079	3.6	959911	51	\$7.7	

The moreases in number are in some cases concealed in the percentage column by the fact that the population for 1912 is taken on the census of the preceding year. With the exception of the small province of Coorg Burma holds the highest percentage owing to the absence of the purda system. But the number of girls in that province has not advanced pars passes with the population and the place of pre eminence is no longer secure. Madras Bom bay and Eastern Bengal and Assam have drawn close behind

516 As regards race and creed the figures are compared below

-			_						
	Eg op she and Ang o- Indiana,	lad so Ch etta s	historia .					П	
			B shoes	No B sheast,	M ham madeor	Boddh ste	Part	O bers	Total
1907	14 448	62 284	F6 694	297 4°3	121 699	61 745	6 170	4 563	e12 0-8
1912	16 710	79911	120 812	441 %7	213 247	66 154	6 a S	15 752	9-2 911
Perce inge to the t tal at school	17	17	27	463	294	69	7	16	100
Percen age of increase	192	17.1	19.2	487	75 9	27 8	58	2432	477
Per estage of tiose at a hool to populat on of a hool go ng age in each community	100	28 8	167	29	40	81	FS 9	21	51

The most remarkable feature among the increases is that of Muham madans

⁵¹⁷ The general figures of increase indicate a substantial advance But (c) Standards it is necessity to consider standard as well as numbers. Here Europeans must be evoluded. There are now 66 high schools for Indian girls with 9 045

pupils against 43 schools and 4,945 pupils in 1907, 112 English middle schools, with 11.013 pupils against 113 schools with 10.510 pupils in 1907, and 168 vernacular middle schools, with 15 734 pupils against 262 with 26,663 pupils in 1907 High education thus shows a considerable advance. English middle education is stationary, and vernicular middle education has receded main cause for this apparently unsatisfactory result is the reclassification of institutions (already alluded to) in Madras, a number of lower secondary being now classed as elementary or higher elementary schools "The lowering, says Sir A Bourne, " is of course only apparent The great majority of old lower secondary schools still exist as elementary and very many of them as higher elementary The difference is that they now have in view the definite aim of fitting the girls for life and have the advantage of an elastic curri culum which can be made to suit all varieties of racial and local circumstan ces" This has resulted in a fall in the Madras presidency of English middle schools by 6 and of their pupils by 692, and the complete disappearance of all vernacular middle schools, which previously numbered 157 with 18 939 pupils In the latter case, this more than accounts for the apparent loss of 94 schools and 10,929 pupils. In the former, the diminution is counterbalanced by increases from 717 to 2,784 pupils in Bengal from 65 to 1,577 pupils in the United Provinces, from 1,331 to 3,655 pupils in the Punjab and from 2,854 to 4 324 pupils in Burma

518 Judged by the more correct criterion of pupils in different stages, the increase in English pupils has been substantial, and that in upper vernacular pupils pincomenal Pupils in the high stage have risen from 1,208 to 1,812, in the English middle stage from 4 332 to 7,773, and in both together from 5,540 to 9,585. Those in the vernicular middle stage have declined from 3039 to 1,602, owing to the total disappearance of pupils of this stradard in Madris. (There is also a very small decline in the Central Provinces.) But pupils in the upper primary stage have risen from \$2,678 to 43,941, while the increase in the lower primary stage has been from 519 104 to 778 076 (see supplemental tables 175 and 176). The percentages of increase and decline in different stages are—high-50, English middle+794 vernacular middle in different stages are—high-50, English middle+794 vernacular middle

-47 3, upper primary +34 9, lower primary +49 9

519 Sufficient has already been said regarding literacy in chapter VIII It was there shown that the percentage of literate females per mille has risen from 7 to 10 Absurd as the figure may appear from the European stand point, it is only fair to add that the increase however minute, yet indicates what may prove the beginnings of a large advance. The growth of literacy up to the age of 10 has been owing to the enhanced stringency of the test, stationary among males Among girls there has been an advance more than sufficient to counterbalance the effect of the new definition The increase of 70 per cent between the ages of 10 and 15 compared with that of 50 per cent between the ages of 15 and 20 gives promise for the next decade The census reports realised and reflected the greater interest which is being manifested The literacy figures depend not only on the numin the education of girls ber, at school, but on the length of school life-often deplorably short The following is quoted in the Madras report -

"The tendency for gulls to remain longer in school is shown in the fact that higher stainlinds have been opened in several schools. Children of wealthy parents attend mustly on account of the draws to obtain greater knowledge of Linglish which is valuable asset in view of the prospective bindegroom and poorer guis are attricted by the scholarships offered. Some given to school after myringe in order to supplement the meager knowledge along the sum of school after myringe in order to supplement the meager knowledge along the sum of the interesting number of individual cases in which the desire to continue the school life is expressed toget lew with the regret state custom or adverse creamstance prevents the continuance above that the general feeling has advanced in favour of attendance in the higher standards?

On the other hand Mr de la Fosse says, "Madras is not the United Provinces and in Madras girls are not removed from boys schools at the age of eight. Here it is the almost invariable rule. It requires a rather sanguine temperament to expect that at that age girls can carry away from school impressions 'that will never fade into nothingness' that

520 Expenditure on institutions for girls has risen from Rs 44 34 294 to Rs 60 75 045 The total amount is small. But it is to be remembered that

(d) Literacy

(e) Fxpends ture halt the 5,17h under instruction are taught in boys schools, the expenditure on which is not shown here. The expenditure from public funds upon schools for liding gills is Rs. 21,04 149, that on European girls' schools is Rs. 3.00 454. The artrage cost of educating an Indian girl is Rs. 4.6 per annual and the cost to public funds is Rs. 2.5. The cost in a secondary school is its 24.4 contrasting with Rs. 20.8 in the case of a boy reading in a Loys school. In primary schools it is Rs. 3.4 contrasting with Rs. 4.2 in the case of a boy. The higher rate in a secondary school is indicative of paucity of pupils and expense of staff, the lower rate in a primary school points to the massing of the children in the lower grades promotion from which to advanced grades demanding more expensive instruction is checked by the necessity for early abandonment of studies.

521 The advance made is thus comparatively large. But the total figures Results us still minute. The percentage of pupils to the girl population of a school going age is 5.1. The literate among females number 1.1 in a hundred. The direct expenditure on girls education is Rs 60.75.045—being but one ninth of the total amount directly spent on education in India. Not only do the general figures clerify indicate deep seated indifference or antipathy, but here hund there a contrast brings out still more forcibly the causes of comparative stignation. In Burma, where there is no caste system the percentage of femile literacy is 6.1. In the United Provinces the female Hindu population is 10.172.07 the Muhammadru 3.192.086 and the Indian Christian 77,131. In the same province the figures for girls in angle vernacular secondary schools are—Hindus 404. Muhammadna 138 and Indian Christians 2.668.

II -Institutions

522 The public institutions for girls (Europeans and Indians) are class: Aumber of fied as follows — public institutions — public institutions

M Mile M dale Engl sh Torer. 135 193 168 12,5% Inst tutions 13 33 1 Lupils 173 15 263 15,033 13 804 446 225 190 a01 -

The number of girls here shown is not the total under instruction but those in schools specially established for girls. There are also 77 259 girls in pirvate schools. In addition to the number of girls shown in the table there are 20 315 boys reading in girls schools

Of the total of 13 394 public institutions 607 are managed by govern ment 1763 by local bodies 277 by native states 9 386 are aided and 1 361 are unsided institutions. The systems prevalent in each province will be noticed under primary schools.

523 The number of colleges specially intended for Indian women is 6 and Colleges the students are 124. But in some provinces women study in men s colleges. The total of women under collegate instruction is 369. To maintain special colleges for very small numbers of women is uneconomic. Their religation to men s colleges involves a risk of subjecting them to inconvenience and depriving some would be students of the opportunity of instruction. The Calciutti and Madras universities surmount the difficulty by not requiring attendance at lectures in the case of women. The senate of the Allahibad and the Punjah universities can admit them as special candidates to examinations without attendance at college. Bombay alone insists upon attendance as in the case of men. The only institution in Vadras specially intended for women is the Sarah Tacler College at Palameotish but a mission institution at Rovapurant teaches to the intermediate and suitable arrangements have learn made in several men's colleges. There are now 46 girls reading in arts colleges. In Boribay women study in men's colleges—the Bethum the Diocesan and the Lorest House. The first is a government in tuttion the other two are managed by missions. The Buthune College is falliated to the BY in miss subjects. The number of students is 40 of whom 31 are Brahmos eight are Indian Christian and one is a Muhummadan. The annual cost is Rs 24590 of which over Rs 22000 is defraved by government. The

Diocesan College is also affiliated to the BA in arts subjects, and (with the exception of a pandit) is staffed with well qualified ladies. It has 29 students -two Europeans, 19 Indian Christians, five Brahmans, and three Jewesses The college department of the Loreto House school consists of intermediate classes and contains seven Europeans and three Indian Christians United Provinces has an excellent institution in the Isabella Thoburn College at Lucknow, which contains 30 arts pupils and 13 in the normal classes Large additions have been made to its buildings "The success of the college in university examinations,' says Mr de la Fosse, "is well known and its reputation has been well sustained by this year's results 3 passes out of 5 candidates for the BA, 5 out of 9 for the intermediate and 4 out of 4 in the Hitherto the college has taught arts subjects only, but it has now been affiliated up to the intermediate standard in biology Preparation for public examinations by no means absorbs the energies of the staff and students, for the majority of the latter will probably never need to face the ordeal and can pursue undisturbed by its attendant anxieties the even tenor of their studies. The most valuable part of the work is the vigorous social and intellectual life prevailing. Weekly lectures are given on literary, scientific, and historical subjects and once a month a form of extension lectures in Urdu with lantern slides is provided for zenana ladies of Lucknow The staff has been greatly strengthened by the addition of several trained American teachers and there are now also two American trained Indian teachers. The material expansion of the college has placed a severe strain upon the energies of the authorities but its completion will leave them free to take advantage of their improved conditions to raise the college to greater heights of usefulness' The Queen Mary College at Lahore is rather a superior school for the upper classes than a college of the usual type It has now been housed in a new and handsome building. Other provinces have no special colleges, but scholarships are occasionally offered for study elsewhere Thus in Eastern Bengal and Assam six junior and six senior scholarships are reserved for girls

Secondary schools 524 Secondary schools (exclusive of vernacular middle schools) for Indian guis number 178 with 20,058 pupils. With the pupils studying in boys schools, the number comes to 22,962 (Supplemental table 172 shows the division between high and middle schools). Of the 135 high schools for girls moticed above, 66 are for Indians, 69 for the domiciled community. The great majority of the institutions are of the aided type Mr Orange remarked that the chief purpose of girls' schools is to impart primary education. As already shown the numbers in the high and middle stages have loading the state of the state of girls (including Europeans) studying in secondary schools is 36,892. Of this, 13,430 are Europeans, 12,930 are Indian Christians 1,573 are Brahmans 4673 are non Brahman Hindus 467 are Muhammadans, 1,186 are Ruddhists 1,763 are Parisis, and 905 are classed as others. In 1912, 314 girls passed the matriculation Cambridge senior examination, European high school examination, or earned the leaving certificate Among these, 136 were Europeans. Bombay shows the largest number of secondary schools and pupils—55 and 4,844 respectively. The United Provinces so backward in the number of girls under education of all sorts has 31 secondary school

525 In Madras girls' secondary schools are on the whole better housed and equipped than boys schools Many of them are boarding schools and others have well managed housel. In Bombay the whole position of girls' education is regarded by Mr Prior as unsatisfactory. Among necessary reforms in angle vermedlar schools he mentions the introduction of a course datapted for girls the training of teachers and the uncrease of grantand the inspecting state of the area which will enable aided schools to offer attractive scharies and the inspectives to impress her personality upon the schools of the twenty four English secondary schools in Benad, all cycept one which is a government institution) are privately managed (largely by missions) and all hit there receive and—some of the high schools as much as Rs 500 a month. In the United Provinces all the four high schools are managed by missions. A feature in the Punjeb is the existence of hostels

attached to schools either maintained by missions or by Indian societies the latter two are reported as having respectively 233 and 180 bourders. In Eastern Bengal and Assam the number of secondary schools is small com pared with the general numbers under education But the province possesses a very excellent high school at Dacca with training classes and a boarding house

526 From several provinces come complaints that the secondary curricu Secondary lum for girls is unsatisfactory and that it is necessary to discriminate it from curric lum that laid down for boys Beyond the option of taking a modern European language the matriculation is the same for both sexes and at Bombay and Madras a European language is permitted in the case of male students also Mr Prior tears that whereas in India our ideal should have been above all things to educate girls to become good wives and mothers we have fostered the ideal rendered necessary by our English redundant population-namely that girls must be so educated as to be able to earn their own livelihood The Bombay inspectress says — It is unfortunate that the school final examina tion does not appeal to the Indian girl whose horizon is as a rule bounded by the matriculation examination. Till this fetish is abolished it will be im possible to hope for a liberal education for our girls The report from the United Provinces speaks of the need of a differentiated course in order to make secondary education popular At the same time the popularity of English instruction appears to have led to overloading of the course and this combined with the failure of managers to secure good sanitary conditions is attributed by the chief inspectress as the probable cause of the prevalence of consumption among girls in boarding schools and those who have recently Government has accordingly forbidden the teaching of English in lower classes on pain of the loss of grant In Madras the problem appears largely to have solved itself There the secondary curriculum is no longer dominated by the matriculation examination. The school leaving certificate scheme recognises music domestic economy and industrial subjects and does not insist on English It is thought that schools will adapt their courses more and more to the requirements of girls

schools called (as in the Bengals) model schools—a designation which with a two exceptional cases of surprisingly good work is (as will presently be shown to be the case also in the Bengals) a missomer. The condition of board and municipal schools varies largely according to the interest of the chairman

530 In the remaining provinces the great majority of schools are of the aided type Madras has 181 government schools and a still smaller number managed by local bodies The majority are aided and are largely under mission management The mission schools are generally vell housed Houses on a type plan are also being constructed for government schools but many are still held in rented buildings Bengal and I astern Bengal and Issait possess a few model schools. These were intended to be model government institutions but in reality vere neither. They were left to the management of boards till 1908 when Lovernment took them over Aor are they yet models The difficulty says Mr Prothero of what schools should be tion with these schools was that the scheme was sanctioned on the understand ing that the public should provide the necessary buildings and undertake to keep them in repair This obligation has not been properly fulfilled. The housing and equipment of these schools is often lamentably bad special need for proper teachers quarters. For want of such accommodation it is difficult to retain the services of young female teachers. They have been similarly unsuccessful in Lastern Bengal. The so called model schools" writes an inspector are each staffed by a master (in two cases 1) mistresses) on a pay of Rs 6 supplemented by an allowance of Rs 7 a month for the attendance of the girls 1 maid servant is extertained on Rs 3 a month and there is a grant of Rs 2S a year for contingencies and prizes The housing is generally poor as also the equipment. But the vast majority of schools in these provinces are privately managed and receive aid from the The merit of these schools says the Bengal report "appears to depend upon whether there is any special interest taken in female education by members of the district board or of the subordinate inspecting staff. If the school is a mixed school for boys and girls the girls are often put in a corner and given only stray moments of the teachers attention though he draws a special allowance for teaching them As a rule these girls schools are in an extremely bad condition. All the available funds are wanted for boys schools and the pay of the pandits of the e girls schools is generally too low for efficiency Often age is their only qualification" On the other hand the aided mission schools in Calcutta are reported to be satisfactory A new departure in Bengal was the orening in 1910 of twenty one peasant girls schools The number is now thirty two These are intended to reach a class of people usually averse to female education. But save that the teacher pry has been fixed at a rate higher than the ordinary (to wit Rs 10) the report does not state the special characteristics of these schools In Lastern Bengal and Assam 82 per cent of the institutions are of the nided type "the numbers of aided schools says the report increased from 2 295 to 4 094 while that of their pupils has risen from 41 746 to 91 093 or by 118 2 pcr This result is due in a large measure to the allotments made from imperial funds during the quinquennium under review for the foundation of new primary girls schools. In Burna nearly all schools are of the aided type. It has already been noticed that the percentage at school while higher here than in any other large province is practically stationary though social conditions favour expansion. The report has some interesting remarks which may have a bearing on this point

The quest on of the expans on of female education cause un her excellent and in 101 It is complicated by the fact that possy; is pract cally in bothing and ms on a relatively 1 title tow rds the vernacular education of g rls. Missionary agen is appear to prefet anglo-vernacular work, and only two or three n ones in the whole province have reluded g rls among the r pup ls. Hence if m ss ons and mends and the province have reluded g rls among the r pup ls. Hence if m ss ons and mends adoptation with the state of the state

the female school going population is put at 889 758 of whom scarcely 80 000 are reported as being under instruction in jublic or private schools of any sort at is clear that facilities for female education require expans on tenfold before the mass of the sex can be considered literate. To overtake this task provision not only for teachers but also for inspect on (a spec lly difficult problem) se sential

In the North West Frontier Province all primary schools save six are miniged by boards or aided institutions

531 The need of a differentiated curriculum is probably less acute in the Primary vernacular than in the English's ages of instruction. Girls in primary curriculum schools usually (but not always-Bombay is an exception) read the same books as boys but take some special subjects. Nevertheless a tendency is observable here also to a more complete distinction. In Madras a list of subjects was issued in 1998 which leaves each manager free to devise with inspecting officers a course suitable to the school in question Health house management and plain needlework are to be taught in a practical manner in every school A revised syllabus was published in Bengal in 1907 for the infant and lowest classes of girls schools at differs from that for boys mainly by adding needle worl and domestic economy and omitting drill. In Burma girls still follow in the main the cour e prescribed for boys and needlework and calisthenics are not compulsory in primary schools but the elementary science and object lessons contain topics suitable for girls A special course for girls in Eastern Bengul and Assam was framed towards the end of the period on the recommendations of the Female Education Committee It lays stress upon calls themes hygiene "ewing and knitting. It is too early to express an opinion on its result. One inspector fears that the staff of teachers will not be capable of handling it A teachers manual has been produced to help the gurus

532 The number of girls in private institutions is 77 259 It is interest Private no to find 1150 gris studying in advinced institutions for Arabic and institutions.

Persian and 574 in the e for Sanskrit.

Of the latter a curious example is the Jacquing Aram near Chittagong from which grid students have been singularly successful in the examinations of the Sanskrit Board. Calcuttn. Nearly 48 000 read in Koran schools These are small girls of whom more than half are in boys schools There is likewise the Mihakali Pathshali of Calcutta with over 600 girls and fifteen branches some a far away as Benares and Rawalpindi Sanskrit is taught and the aim is to bring up girls to pay strict attention to the Shastric injunctions in matters relating to domestic life and the performance of domestic duties obligatory on orthodox Hindi women Further mention is made of these institutions in chapter XX

III -Special characteristics

533 The special topics which require treatment are co-education the systems of grant in aid fees scholarships home teaching professional and industrial instruction training inspecting agencies and special committees

534 If in the preceding section the paucity of girls schools has produced Girls in boys' a shock it is necessary to remember that nearly half the girls under instruc schools tion (namely 407 414 out of 902 911) read in boys schools (see supplemental table 165) In 1907 the percentage of those so reading to all girls at school Now it is 42 8 for the whole of India while in Burma it is as much was 41 9 as 73 6 and in Midras 57 8 In the Central Provinces the number has more than doubled but the proportionate increase is concealed by the expansion of girls schools In Eastern Bengal and Assam despite a substantial increase

the same cause has led to a falling off in the percentage. In the Punjab the practice appears to be unpopular only 5 9 of the girls under instruction are found in boys schools. During the quinquennium the number so reading has risen from 270 077 to 407 414

535 In small villages the system of co education in a single institution is economical and offers an obvious method of increasing the number of girls under instruction. It is accordingly the custom in some provinces to offer a higher capitation for girls than for boys whether the former read in special or in boys schools This is the case in Madras In Bengal the teacher of a school for either sex receives at least Rs 2 8 0 a month if he can induce 20 girls to attend regularly and Re 1 for every eight girls. In the United

Provinces allowances have been given at various rates—four annas per child or eight annas per five children. The bribe was continued at the lower rate in 1908 and the enrolment of girls in boys schools has continued to rise. In Burmi save in the pongyi kyanna the practice is natural enough. In Eastern Bengil and Assam special grants have been offered for girls reading in boys schools and the method was commended by the Temale Education Committee since more girls could be taught in this way than by any other system.

536 Opinions as to the desirability of the practice are varied there is the possibility of violence being done to social feelings But the sys tem generally amounts merely to the attendance of little girls in primary schools for boys the number who so attend shows that at least among large sections of the population there is no prejudice and it is to be noticed that small boys too are permitted without comment to trespass into the precincts of girls schools and pursue their studies under the soothing influence of their Secondly there is the professional distrust held by many of Where only small children are concerned the effect the value of co education Thirdly where special capitation is given there is probably insignificant is the suspicion of fictitious entries nominal attendance spurious education and undue pressure upon parents. Mr de la Fosse notices the fluctuations in number which have followed the rise or fall of the rate of grant the presence or the transfer of an officer who regards the scheme with favour Probably all that this proves is that in some areas the desire of parents to see their daughters educated is well diluted with a feeling of human kindness towards the ill paid teacher who will earn a little more if the small sisters accompany their brothers to school for a certain number of attendances general idea appears to be that the system is to be encouraged in the case of small girls since it can do no harm and may do good but that the real dis advantage of it is that girls are forced to leave such schools at an early age before any permanent impression has been made and that accordingly it must never be regarded as an excuse for not maintaining and establishing girls schools wherever this is necessary or possible

Grant in-aid fees and scholarships

537 The subjects of grants fees and scholarships may be treated together since the feature of concession (intended to popularise girls educa-tion) is common to them all. The grant in aid system is similar to that for boys schools but more generous-not only are special capitations permitted (as shown in the preceding paragraphs) but says the report from Eastern Bengal and Assam the calculation of the grant is made with regard to the expenditure necessary for contingencies for servants and for the conveyance of pupils to school. The proportion of allotment from public funds to the total expenditure is 24 9 per cent in the case of nided secondary and primary schools for girls as compared with 141 per cent in that of a boys school The levy of fees is optional or non existent in girls schools save in those of higher grade and the more expensive boarding schools. Thus in English schools the average fee is Rs 107 a year per pupil in primary schools it is Re 23 (about 31 pence) a year (see supplemental tables 182 and 184) In all classes of schools the average fee is lower in publicly than in privately managed institutions being in the case of primary schools only Re 04 total fee collection in schools for Indian girls (to which alone these figures refer) is Rs 3 35 900 a year or about one eleventh of the total expenditure Ordinarily speaking girls compete for the scholarships open to boys and also have a certain number of scholarships reserved for them. This is the case In Eastern Bengal and Assam special collegiate scholarships are reserved for girls and a large number of reserved lower primary scholarships were established during the quinquennium It is stated that 114 scholarships of different kinds were held by girls in this province during 1912 In the Punjab there is no competitive examination for girls scholarships but small monthly sums are paid to most of the pupils who pass the lower and upper primary tests This as the director savs amounts to paying girls for attend ance and should now that schooling is more popular be superseded by The amount thus given has increased largely during the period selection

Home teach

538 Home teaching is the sole way of bringing education within the reach of purda women whose education during childhood has been neglected or

incomplete. Such classes writes a missionary lady of experience give an opportunity to the married and elderly people and to the widows of being able to read They also create in the minds of the people who have thus become familiar with education a greater desire to educate their young daughters so that this arrangement not only spreads education among the present gene ration but also popularises it among them to the advantage of the younger generation. In Burma remarked Mr Orange there is no occasion for zenana teaching except among the Indians domiciled there but in every other province zenana teaching is carried on either by missionary agencies or by associations of Indians or by both Doubtless there is a good deal of private tuition The efforts of government have also increased during the quinquennium in the same direction but the scheme is costly its success depends on the existence of suitable teachers who are still far to seek and of a sufficiency which has not yet been reached of inspectresses and its scope is naturally confined to large centres The modus operands is to appoint gover nesses who either go from house to house or take classes of ladies collected together in the house of some respectable family Local committees of organ isation are formed Full figures are not supplied in the reports. In Bengal there are 76 teachers of these classes and the number of pupils has risen from about 1 200 to 1 431 The chief inspectress in the United Provinces remarks -

There are non five visiting governesses at work and there are several places where an appoint an twould be made it as at able teacher were forthcoming. On the whole the results ach eved so far are far from proportionate to the outlay. In Agrs for instruce there are four visiting governesses and an average of 45 pupils at work daily out of 71 eurolled. But the inspectress reports that the work is so spannodic that there save real desire for this form of instruction though it is pressrely accepted when offered on the other hand there is it fact that many of the better fam lies in a city such as Lucknow are feeling if a need of private teaching and mike the rown arrangements to secure it. In my opin on it is fir better that they should be left to do so. No inspectives can have a proper hold over an innerant teacher or check her work thoroughly while the response bit by 6 appointing women to such posts is hevry

In the Punjab it is estimated that there are 723 pupils and in 1911 forty five classes were started in Labore under a strong committee of Indian ladies. From small beginnings in Eastern Bengal there have now spring classes in nine towns (exclusive of a widows industrial home) with fifteen teachers and 599 pupils among whome 204 are Muhammidans. The teachers are generally in government employ on pay ranging from Rs. 40 to Rs. 50 a month and carriage allowances. Five teachers are provided by mission bodies who receive grant.

Apart from the limitation of scope alluded to above an obvious dis advantage of the system is that it may foster seclusion especially by its extension to pupils of tender age who should be at school. It is difficult altogether to exclude these. Again owing to the intervals which must elapse between the visits of governesses the standard attuned is often low. The experiment however is one which is probably capable of considerable results

539 The professional training of women is confined to medicine and Professional teaching. There are 55 women in medical colleges and 227 in medical ranning schools. It is unnecessity to add to what has been said in chapter IX and the truining of mistresses will receive treatment presently. Althonous must however be made to the scheme formulated by Her Pxcellency Lady Hardinge for a school to train Indian nurses and midrates. It is proposed to combine the scheme with a medical college for women at Delin in commemoration of the visit of the Queen Empress. Generous subscriptions have already been made by princes and wealthy land owners. This institution will remove a powerful check to the medical education of women—the necessity of studying in men's colleges or mixed classes.

540 The girls who are studying industries are returned as 3 017 of whom Industrial 201 are Luropeans and 1 372 are Indian Christians. In schools of art there education, are 56 girls—all with one exception being Europeans. Indian Christians of Parsis. In commercial schools there are 2.08 but these are nearly all Europeans. In Madras presidency there are 7.03 girls in industrial schools. Presumably a considerable number learn lace making. This says the report,

holds out to women a prospect of earning in their own homes The director of industries considers the instruction in this subject more efficient than in any other and hopes that if home firms can be interested in Indian made lace a large industry may spring up. In Bombay the number of industrial pupils is almost negligible But government aids a lace school at Nagar a Salvation Army girls' industrial school at Satara and a Zenana Bible and Medical Mission embroidery class at Manmad Bengal returns 681 pupils most important institutions are those situated at Kalimpong in connection with the Church of Scotland Mission under the superintendence of Mrs Graham These consist of lace embroidery and weaving schools The sale of lace in 1911 realised over Rs 7 000 and 36 teachers have been trained since 1905 for giving instruction in branch lace schools. The main object is the establishment of home industries There is a Buddhist school at Darjeel ing which combines werving and knitting with religious instruction in Tibetan etc The Mahila Shilpa Asram in Calcutta is a purda institution managed solely by a committee of ladies which teaches machine stocking knitting weaving and needlework-lace making proved a failure receives an annual grant of nearly Rs 6 000 from government There are other schools—mainly for lace—at Bhawanipur and Entally (Calcutta) Cuttack Ranchi etc These are generally managed by missions and staffed with trained teachers from Kalimpong or in the case of Roman Catholic missions with skilled nuns from Europe There is also a Mission Widows Industrial Home at Baranagore with 45 inmates who learn various indus tries including carpet weaving The Punjab has 1 069 pupils shoe embroidery is well taught in Delhi and at Palwal lace and network are thoroughly learnt. The S.P. G. middle school. Delhi has a Limerick lace class which is entirely self supporting and in which very good work is done The Limerick lace done at Queen Mary's College is also particularly good In other provinces the numbers are small Convent schools in Burma teach cooker, dress making needlework and lace making weaving is taught at the S P G girls school Shwebo and in fourteen vernacular schools. There are industrial schools at Dacca and Gopalgani in Eastern Bengal and a widows home established by a mission lady at Orakandi (Faridour)-needle work and cookery are taught. In the Assam I alley four schools have wear ing looms the mission at Nowgong (Assam) has established a weaving class and in St Mary's Convent at Shillong girls are trained in laundry work sewing house work and cooking

541 These last however carry us to industrial subjects taken as a part of the ordinary course Needlework is generally taught domestic economy frequently There is a strong tendency to scriftice utility in needlework for showy and inartistic designs. The Bombay inspectress saves that plain needle work is not popular with the parents and the principals of schools are inclined to defer to the parents taste and encourage showy embroidery. The same compliant is made by the inspectress in the Punjab who lyments the neglect of the old and beautiful patterns for ugly work in Berlin wool and velvet embroidery. The Bombay inspectress also easy that the terching of domestic economy will be valueless till it is supplemented by practical work.

It is evident that the subject is looled upon as one for exam nation only and it is probable that more than 90 per cent do not attempt to apply the rules of hygene etc. I learnt from an utell gent class (ages varying from 15 to 18) who were able to answer fluently from the noise dictated by the teacher that they all performed a hare of the household dutes. On my haard up the suggestion that it was very easy to dispose of the kichen refuse by throwing I over the wall into the ne glibouring compound they cheerfully acquessed and sa'd that that was what they usually d'd

Special committees

542 The extraordinary difficulties connected with grils education have led Local Governments to take special measures for consulting those concerned in the work of teaching and others interested in the subject and also so far as possible to enlist the advice and co-operation of ladies. A committee was summoned in the United Provinces in 1965 and funds were allotted for gying effect to some of its recommendations. During the quinquennium a standing committee was established in Eastern Bengal and Assam. Half the members were ladies. The first session of the committee was held in 1908 and sessions were held in subsequent years. Among its principal recommendations have been the creation of a network of board schools in Eastern Bengal for which

end a survey has been undertaken, the framing of a special curriculum with special text books, for all but the highest classes, an active policy of training and of zenana classes, and special measures for Muhammadans The exist ence of this committee working closely with the department, has no doubt had admirable results

543 As one of the effects of these central advisory bodies attempts have Local been made to constitute local committees. These were established in the committees. United Provinces in 1908, but have not flourished. They generally lacked says the report, the spontaneous vitality that would ensure regular interest and work, a few have shown fitful signs of life, still fewer have evinced a genuine interest in their work, the majority have died a natural death committee in Eastern Bengal and Assam recommended the formation of committees of ladies at district and sub divisional headquarters. The result is not reported, but there has been a general reorganisation of school committees

and ladies have been placed on them 544 From nearly all provinces comes the complaint of the scarcity of Supply of women teachers The attendance of small girls at school is tolerated or even uomen desired by parents in many localities
Their continuance at school after the teachers

age of twelve is disallowed. The idea of their entering a profession is generally viewed with abhorrence. Hence the number of little girls to be taught far outstrips the number of women available to teach them Owing to this dearth female teachers can command a higher wage than men A lady BA may commence service on pay which the less rare male commodity can attain only after some years But even so, women are often not forthcoming
especially in elementary schools When this is the case men considerably past the prime of life are generally selected for this office. In default of women their utilisation is generally approved and proves fairly satisfactory Indeed we learn that in a certain district of the United Provinces most of the so called schools in the villages are merely providing a stipend for some female and could only discredit female education, while the chairman of the board in another district writes At the present stage of female educa tion the employment of superannuated male teachers has this advantage that in order to secure a means of livelihood for themselves they create a desire for female education in villages which could otherwise perhaps not be touched by the movement for years. But the general cry is for women to teach girls, and their paucity is regarded as a serious obstacle to progress. In some provinces the majority of girls (even of those reading in girls schools) are still taught by men Nevertheless improvement, even in backward localities is reported. In provinces where education has made headway the condition of things is much more satisfactory. Full figures for women teachers are not available Those for a few areas in advanced provinces will give a sufficient indication In Madras the southern circle shows a majority of women over male teachers in girls schools in the central circle male teachers form only 36 per cent of the total In the less advanced northern circle the employment of male teachers was almost the rule till some improve ment was effected in the last year of the quinquennium In Bombay there are 1 154 primary girls schools and no less than 1 342 women teachers in them

545 Training presents an added difficulty Even in Bombay where Training of training facilities are particularly numerous and of long standing only 595 of mistresses the 1 342 mistresses just mentioned have undergone training. Not only are the remaining 747 untrained but 615 of them have not even passed the verna cular final examination An inspectress in Madras writes. The child widow is marked out by all the circumstances of her life to be the teacher of the future Other women teachers are full of family cares and this is one reason why they are seldom successful in their school work." Another reason appears from the report of an inspectress in Bombay who says that the husbands of married teachers are inclined to interfere in the work of the schools and to instigate their wives to submit petitions and generally to neglect their duties. There are she says a number of mistresses in the neglect their duties department with worthless husbands whose chief purpose in life seems to be to get their wives into trouble

546 There are now 85 institutions for training mistresses with 1 508 pupils as against 63 institutions and 1 278 pupils in 1907 Of the institu

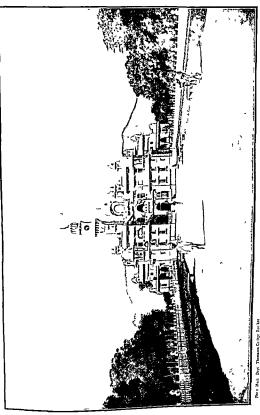
tions, 24 are managed by government, three by local bodies, one by the native states in Bombay, and 57 (of which 49 are aided) by private bodies-largely The total cost has risen from Rs 2,43,236 to Rs 3,70,160, of which over 24 lakhs are provided by government, nearly three quarters of a lakh from private (largely mission) sources and most of the rest by local bodies or the native states of Bombay The average annual cost of a pupil is found to be Rs 261 (but, since expenditure is not always shown, in reality higher) and rises to Rs 368 in the United Provinces The most complete arrangements are in Madras and Bombay, each of which has over 400 pupils under training Bengal has no institution for training secondary mistresses, the vernacular training classes (with the exception of two government schools) are generally managed by missions Eastern Bengal and Assam had no arrangements of any kind, but government classes were established both for primary and secondary teachers at Dacca during the quinquennium and mission bodies in Assam are being encouraged to open classes The United Provinces has some good institutions notably the Isabella Thoburn Normal School at Lucknow The Punjab has a government school at Lahore and classes attached to secondary schools In Burma there are four aided mission schools In the Central Provinces there are two government colleges A more detailed description of the arrangements in each province will be found in appen dıx XXVI

Administration and irspection

547 It is an accepted doctrine that the administration and inspection of girls schools in India should, so far as possible, be in the hands of ladies The difficulty of transferring these institutions from the ordinary to a special agency arises from the smallness of their number and the fact that they are scattered about often at long distances where their inspection (unless com bined with that of boys schools) can be carried out only at considerable incon venience and the expenditure of much time and money In 1907, there were 14 inspectresses, of whom all those in Madras, Bombay, Bengal and the Central Provinces (numbering seven) as well as the chief inspectress in the United Provinces, were in the Indian educational service, while the other four in the United Provinces and two in the Punjab were in the provincial service There were also 13 assistant and seven sub assistant inspectresses, making a total of 34 Burma and Eastern Bengal and Assam had no female inspecting In the latter province a staff was created during the quinquennium The sanctioned total is now 21 inspectresses (of whom 12 are in the Indian educational service) 17 assistant inspectresses and seven sub-assistant inspectresses (One sanctioned post of inspectress and one of assistant inspectress in Burma have not been filled). The transfer of control and inspection from the ordinary agency is not complete, and different arrangements have been made in different provinces such as the transfer of certain classes of institutions to the inspectresses with duties of inspection and advice as regards others

548 Madras has three inspectresses and ten assistant and sub assistant inspectresses Bombay has two inspectresses. In Bengal there are two inspectresses and six assistant inspectresses, their powers of control have been extended but administrative matters still rest with the inspectors. The were four inspectresses under the orders of the inspectors, the latter being indirectly responsible for the education of girls Their number has now been rused to seven and their pay to Rs 150 rising to Rs 250 Their official relations with inspectors have been severed, they have been placed under the control of a chief inspectress they inspect schools of every type, and they are solely responsible for model girls schools. The chief inspectress mainly directs and organises, she inspects only the larger schools and those in special need of attention An assistant inspectress has been put in special charge of the city schools in Lucknow apparently with excellent results. In two districts a Hindu lady has given valuable assistance as honorary inspectress another case the results were less happy In the Punjab there are two inspectresses and two assistant inspectresses A scheme is under consideration for the appointment of an assistant inspectress in each division with a view to establishing training classes, the assistance of local effort etc. Posts of inspectress and assistant inspectress have been sanctioned for Burma, but

have not been filled owing to want of funds. Two inspectresses and two assistant inspectresses have been appointed during the quinquennium in Eastern Bengal and Assam. The Central Provinces has one inspectress and two assistant inspectresses. As this is inadequate many schools have had to be handed over to deput; inspectors—an unsatisfactory feature since the presence of an inspectres is a powerful factor in the success of schools and their management by women has popularised them.



MAYO COLLEGE, AJMER

MAYO COLLEGE AJMER

CHAPTER XIV

EDUCATION OF CHIEFS AND NOBLES

549 In a country where over one third of the area is ruled by Indian Intention of chiefs and where class distinctions are in Lord Curzons words ingrained in the colleges the traditions of the people and indurated by prescriptions of religion and race it is necessary to make special provision for the education of future rulers and nobles. For this purpose special institutions have been established imply endowed by the chiefs themselves and aided by government to maintain a strong staff. The original object with which these colleges were founded was again to quote Lord Curzon—in order to fit the young chiefs and nobles of Indra physically morally and intellectually for the responsibilities that lay before them to render them manly honourable and cultured members of society worthy of the high station that as Ruling Chiefs as thakurs or six dars as landlords or jagirdars or in other walks of life awaited them in the future. With this object in view the founders of these institutions deliberately selecting the English public school system as that which had best succeeded in doing a similar work among the higher ranks of English society sought to reproduce its most salent features here

550 The best known of these institutions are the four Chiefs colleges—The lowin the Mayo College at Alphare for Rajputana the Daily College at Indoor for Chiefs Central Indua the Astchison College at Lahore for the Chiefs of the Punjab colleges and the Rajkumar College at Rajkot in Kathawar for the Bomby Chiefs These were founded between the years 1870 and 1885. It was one of Lord Curzon's many activities to acquaint himself with their working and to call a conference on the subject in 1902. As a result they were considerably reorganised and a special branch of the Indian Educational Service was established numbering fourteen officers together with Indian issistants to carry on the instruction. The administration of the colleges is in the hands of councils consisting of political officers and chiefs. At the Majo College and Duly College His Excellency the Vicerov is president. His Excellency the Governor of Bompay is president of the Rajkmar College Council. At the Aitchison College the president is His Honour the Lieutenant Governor of the Punjab. The ultimate control of the Colleges rests with the Foreign Department. During the quinquennium the number of pupils in these colleges has increased from 310 to 413 and the expenditure from about 21

lakh is to about 4 lakhs to which government contributes about 14 lakhs
551 The fire ears have witnessed a stead development. The number of The Mayo
pupils at the Mayo College has risen from 143 to 202 the income of the college College. Ajmer
from 18, 83 000 to Rs. 1 20 000 and the chiefs have added over two and a
half lakhs to the endowment fund. The beautiful uilding has been enlarged
by even class rooms and two laboratories the latter fully equipped 13 his
Highness the Maharaja Saundia of Gwilor. New houses for the residence of
the pupils have been erected. His Highness the Maharao of Kotah has pre
sented an up to-date sanatorium with quarters for nurses. The college
property has been increased by the ad lition of 52 acres of land purchased
with a lakh of ruppes the gift of His Highness the Lite Maharaja of Jodhpur

His Highness the Gaekwa'r of Baroda presented a squash racquet court. After the Durbar at Delhi Her Imperial Vijest the Queen Empress itsited the college. On this occasion every pupil was presented to Her Majesty and the college squadron furnished the escott when Her Vijesty visited the city 552. The numbers in the Duly College have notwithstanding disorgra-

502 The numbers in the Duly College have notwithstanding disorge. The Duly institute caused by the visitation of plague to Indore risen from 54 to 64. A College system of prefects was instituted at the close of the quinquennium. The Indore growth of a healthy school spirit is particularly noticed. There have been considerable building operations. His Highness the Vahrarya Sendia of

Gwalior presented a cricket pavilion. New boarding houses have been erected Old boys who have inhabited rooms are co-operating in their upkeep etc. The new college building was also completed and opened by His Excellency the \ iceroy just after the close of the quinquennium

The Astchison College Lahore

553 The average number of pupils in the Aitchison College has risen from 72 to 100 and stood at 100 in the last year of the quinquennium. This college is peculiar in that some of the pupils attend the government college in Lahore A useful adjunct to the institution is a small agricultural and dairy farm. As a matter of detail it may be mentioned that the conversational method of teaching English has been adopted in the lower forms and has been found eminently successful During the period places of worship have been constructed for the Sikh and Hindu pupils

The Parkumar College Raskot

554 At the Rajkumar College 40 Kumars were admitted during the five years 16 unst 46 withdrawals and the number at the close of the period was The finances have been strengthened the fees now averaging Rs 30 000 Many gifts have been made to the college—a swimming bath by His Highness the Jam Sahib of Mayanagar two squash racquet courts by His Highness the Raja Saheb of Dhrangadhra and a sanatorium His Highness Sir Bhavsinghji of Bhavnagar has published a beautiful history of the There is a successful carpentry class. It is interesting to learn that fifteen ex pupils have during the quinquennium been installed as rulers ten have proceeded to the Imperial Cadet Corps at Dehra Dun and sixteen were included in the escort provided by that corps for His Imperial Majesty A sign of the interest maintained by chiefs in the at the Durl ar at Delhi college where they studied is the establishment of a Past Kumars Club for which liberal funds have been subscribed

General

555 A notable feature of the college life is the strictly residential system. characteristics. Sometimes the humans live in hostels sometimes in separate houses erected by the family to which they belong for the reception of its scions and guardians (Molamids and Musahibs) are placed in clarge. And the pupils are constantly in touch with the English staff on the playing fields The different parts of education are treated in due perspec and elsewhere tive Great care is bestowed on physical upbringing. Riding tent pegging football and cricket are as much a part of the daily life as are intellectual As an instance of the attention paid to religious training it may be mentioned that the Aitchison College possesses a masjid for the Muhammad ans a gurdu ara for the Sikl's and a mander for the Hindus (the two last, as mentioned above recently constructed) the pupils attend these two or three times duly and qualified religious instructors are provided. The bearing and quiet discipline of the Kumars cannot but impress the visitor be hard to find places of instruction more truly and broadly educative or better calculated to achieve the object in view. Inured from an early age to a simple manner of life to a careful physical training and to the discipline which in teaching to obey teaches also to rule and increases proper self respect among quiet surroundings and the influence of dignified buildings and well ordered playing fields the future chiefs and nobles imbibe the educa

Courses and examinations tion best suited for their calling in life 556 Yet even in the more conservative areas of India the exigencies of modern life the demand for higher forms of efficiency and specialisation have made themselves felt A strong and laudable desire has evinced itself among the chiefs (and freely voiced by Her Highness the Begum of Bhopal) for further improvement in the teaching capacity of the existing colleges and the addition of facilities for an altogether higher standard of instruction equivalent to that required in attaining a degree The former demand has been met by the institution at each of the colleges of a diploma examination (first held in 1902) common to them all the subjects in which are English history geography and mathematics and one out of each of the following groups—(i) any vernacular (ii) either science or Sanskith or Persian (iii) either administration or advanced mathematics—The numbers of those who have appeared and passed during the quinquennium are 89 and 79 respect This examination is regarded as the equivalent of the matriculation by the University of Allahabad in the case of pupils of the Mayo College (it

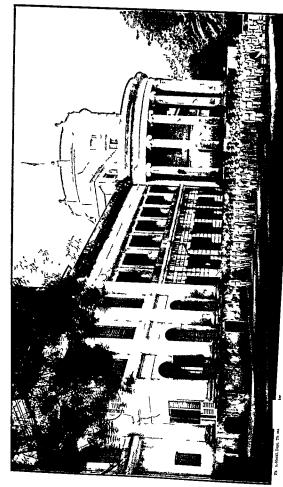
is understood the University is reconsidering this arrangement) and by the Punjab University in the case of pupils of the Aitchison College versity of Bombay refused recognition of the examination in the case of pupils of the Raykumar College partly because a classical language formed no necessary part of it Further to satisfy the wish for a still higher standard a post-diploma course extending over three years and comprising Ingli h history and studies in administrative subjects of considerable difficulty was established in 1907 at the Mayo College Ajmer and in August 1909 at the Rajkumar College Rajkot in 1912 the Daly College too had a class of three students It was afterwards found convenient to concentrate this course at the Mayo College The passing of the examination is regarded as a quali ficution equivalent to the B 1 for government service by the Government of India and the Local Governments of Bombay Bengal the United Provinces the Punjab the Central Provinces and the North West Frontier Province Though the number of candidates is few (three having passed out of five presented during the quinquennium) the experiment is regarded as sufficiently promising to justify further extension of the system. The best method of effecting this is now under consideration and important de relopment may be expected in the future. The need for increasing efficiency has thrown a strain upon the staff and steps have been taken to increase it And the readjustment of organisation and courses to provide for higher study without detriment to the essential features of the life in the colleges requires careful solution

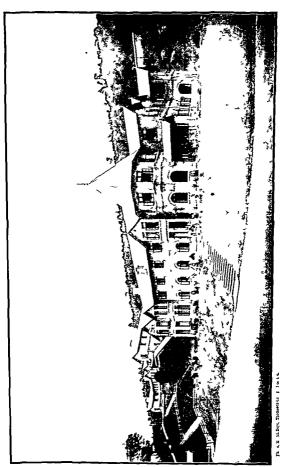
557 Before leaving this subject it is necessary to state the change which Inspections has been made in the arrangements for inspection. Praviously the Director of Public Instruction in the Punjah was responsible both for this and for the conduct of the examination. In 1907-98 the Director General of Education in India assisted by another officer performed these duties. In both cases the task was found impracticable as an addition to the ordinary labours of the officer concerned. Accordincy, in 1908 it was resolved that two clierational officers (one qualified in science and mathematics the other in literary subjected) should annually be selected and receive honorary for inspecting the

subjects) should annually be selected and receive honorura for inspecting the colleges and for aiding in the conduct of the examination the general supervision of which rests with the Department of Education in the Government of India

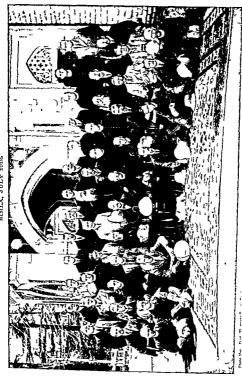
558 Besides these four colleges which serve the large collections of native Other colleges states in northern central and western India, there are institutions in other and schools

localities for the education of chiefs and nobles controlled by Local Govern At Newmoton Madras the Court of Wards maintains a school for the minor proprietors of estates that come under their management. It con tains thirteen pupils and is well reported on. In 1909 10 at the instance of the Maharaja of Bobbili government at pointed a committee to draw up a seleme for a zamindars college. This still awaits the raising of funds Ifforts are made in the Boml av presidency for the education of Girasias and Talukdars partly in special schools as at Wadhwan Gondal Sadra and Godbra partly in hostels as at Dandhuka (wi ere an excellent luilding has just been completed) and at Nadiad for the e who cannot afford education at the special institutions and in the Talpur boarding louse attached to the Sind madraesa for descendants of the ancient Mirs of Sind In Bengal the period I as seen the amaleamation of the madrassa at Murshidal ad-a high school intended for the education of the Nizamat or descendants and relations of the Nawab-with the Local Government high school. The Nizamat hovs are ledged in a special hostel where provision is made for their discipline and religious training. Several sons of ramindars read at the Ranchi Hazaribagh and Chailassa High Schools at the first of which lostel arrange ments are made for them under the supervision of the Furopean Leadmaster Some of the feu lators chiefs of Orissa read at the Maso College others at the Rajkumar College at Raipur - The Colvin Talukdars sel ool at Lacknow for the sons of the nolles of Oudh has been greatly improved. The staff has been strengthened by the addition of an English vice principal, the pay of the Indian teachers has been revised the accommodation in class rooms and





DOW HILL GIRLS SCHOOL KURSEONG



CHAPIER XV

EDUCATION OF EUROPEANS

1 -General

559 Special institutions are maintained for the education of any person Definition of Iuropean descent pure or mixed who retains Luropean habits and modes of the 1n addition fifteen per cent of the number enrolled in each school may be Indians (in Bombay twenty per cent). The definition is a reasonable one as was pointed out at the conference of 1912. The report from Bengal states that it is too wide for purposes of competition for scholar ships. Scholarships for Europeans are distinct from those for Indians as are also curricular examinations etc.

560 Some of the Luropean schools were founded at an early date—the History. Calcutta charity schools, the Doveton College the Martinieres etc. In 1859 Bishop Cotton appealed for a school in the Himalaya | The advantage of locating schools in a healthy climate was obvious The Bishop Cotton and the Lawrence Military Schools as well as many other institutions are to be found in the hills or in salubrious places like Bangalore The question of the education of Luropeans and the domiciled community came for a time into prominence owing to this appeal and Lord Canning's minute on the subject in the succeeding year. The main policy laid down in the minute was self help with liberal aid for the accomplishment of a task which neither government nor mission bodies could undertake Save for a special report which showed that in 1876 there were 15 067 children of the domiciled com munity at school out of a total of 26 649 and that government spent annually 13 lakhs on the schools the problem sank into comparative obscurity till it was revived by Lord Lytton in 1879 when Archdeacon Baly's Committee was constituted and made some striking recommendations. In 1883 a code was issued which prescribed a system of aid by results. The whole question was again raised at Lord Curzon's conference in 1901. Two committees were formed-one the Hill Schools Committee to enquire into the adminis tration of certain institutions the other Mr Pope's Committee to revise the code This brings us within two years of the quinquennium under review The revision of the code the grants made during the period and the con ference held just after its close will be dealt with presently An admirable summary of the history of European education up to 1886 is to be found in the first quinquennial review by Sir Alfred Croft

II -Progress in the quinquennium

561 In 1907 Mr Orange observed that the number of Europeans and of Figures of the dominiled community under instruction showed no tendency to increase schools and Inclusive of those reading in schools for Indians it was 29 174 in 1897 and pupils 31 130 in 1907. Mr Orange did not conclude from this that the possible maximum had been reached. On the contrary assuming that the number of this community must live increased and having regard to the fact that in 1892 the number under instruction nevity equalled those of a school going ag (26 000) he considered that probably a greater proportion of the lower class were growing up out of the reach of schools that was the case ten and fifteen years ago. The figures available at the close of the last quinquenimum warrunted the supposition that some 7 000 children are going uneducated. On the one hand Mr de la losse writes that though the figures in the United Provinces would seem to show that there are children growing up illiterate the discovery of such cases is comparatively rare and is confined to places far removed from schools. Sir A Bourne suggests that a slight diministion of the numbers at school in Madras is due to a diministion of the Turopean population of that presidency. The Burma census report* states that every adolescent and adult mender of the European and Anglo Indian received in the sound.

conditions prevalent in the Aintals of Calcutta and similar slum populations in Madras and other large cities. And Mr Wright observes that in the Central Provinces during the past ten years the Luropean and domiciled population has increased by 54 per cent., the children at school by only 67 per cent too much regard must not be paid to provincial figures and deductions from them, for members of this community frequently avail themselves of educational facilities in provinces other than that of their residence

562 In British India as a whole the number of Lurope in schools and colleges has slightly decreased, owing to the disappearance of collegiate departments which mainly existed in name and of primary schools which, save as affording a preparatory stage in small places, are not generally regarded as serving the needs of the community I upils have mercased from 29 882 to 33.551 (see supplemental tables 156 and 193) Not all these pupils, however, are Luropeans, and, on the other hand, there are Europeans reading in schools primarily intended for Indians | There are 2,271 Indians reading in Luropean schools and 3,021 Luropeans in schools for Indians number of Luropeans at school including 71 in private institutions would therefore be more correctly stated as 34,372. But this figure again is tallacious. It does not include pupils in schools situated in areas not covered by the provincial reports, and one of those areas-the civil station and cantonment of Bangalore-is one of the most important centres of Luropean education in India, containing scienteen schools with 1,905 Luropean pupils drawn, not merely from the place itself, but also from The addition of these brings up the number at school distant provinces to 36,277 This represents a substantial advance upon any previous figure reported accounted for partly by the increase in those at school and partly by the previous omission of the Bangalore figures. The figure is still slightly under estimated as it takes no account of schools in places like Quetta and Hyderabad

Percentage of population at school

563 Nor is it easy to calculate the European population of a school going The total number of Luropeans and the domiciled community in all India (both British provinces and native states) is now returned as 301.433 But the ordinary formula of fifteen per cent as representing the proportion which should be at school does not hold. First, the actual strength of the British troops serving in India is 73.319 (riz. 2330 officers and 72,65) in other ranks). The proportion of children is naturally less in a military population (where marriage is restricted by the limit of soldiers' wives per missible on the strength) than in a settled civil population, nor are the figures of children studying in regimental schools shown in the returns Second a considerable number of Luropeans, civil and military officers merchants, etc habitually send their children to be educated in England, while a certain portion of the well to do domiciled community undoubtedly follow the same practice It would perhaps be reasonable on these grounds to deduct 60 000 from the population for purposes of calculating the proportion which is of school going age If we take the population as 240 000 and the number at school as 36 000 the proportion at school would be 15 per cent. This rough calculation (which must be taken for what it is worth) would appear to show that all those of a school going age are at school other hand there is no doubt that a certain number of children are growing up uncared for and untaught in the by ways of big cities, and it is probable that the children of a school going age should in the case of this community be reckoned on a higher percentage than fifteen since a reasonable livelihood is possible for its members only if they pursue their studies to the age of seventeen or eighteen years. Nevertheless previous calculations have probably erred on the side of pessimism owing to the omission of Bangalore schools from the figures and the inclusion in the figures of population of a military element that amounts to no less than one-fourth of the whole

Expenditure

564 The total expenditure direct and indirect on European institutions arisen from Rs 36 04 759 in 1897 and Rs 53 03 235 in 1907 to Rs 65 24 645 in the last vear of the quinquennum Of this sum direct expenditure accounts for Rs 94 53 496 against Rs 27 16 371 in 1907. The growth is large but has been especially large under indirect expenditure. Here the increase is not in expenditure on buildings etc. (which has actually declined)

but under the miscellaneous head, where it has risen from Rs 13,05,198 to Rs 23 53 776 Detailed figures in the Bengal report show the cause—a large a expansion in boarding charges, due doubtiess to increased numbers and a better standard. Out of a total expenditure in that province of Rs 9 49,681 under the miscellaneous head, boarding charges account for no less than Rs 6 33,894, while contingencies, etc. are responsible to Rs 15 825

565 As to sources of income, no less than Rs 44 00 000 of the direct and indirect expenditure is derived from fees subscriptions etc while Rs 21,24 554 comes from public funds But, by reason of the items included under indirect expenditure, this does not form an accurate criterion. It is necessary to consider direct expenditure. Of the direct expenditure upon each pupil in a European institution, one third is derived from public funds against one half in institutions for Indians The gratuitous services of a host of devoted teachers in denominational schools especially those main tained by Roman Catholic orders, constitute a further private contribution of incalculable value. The annual tuition fee for a pupil in a European institution averages Rs 38, for a pupil in an institution for Indians it averages Rs 2 These figures testify to a considerable amount of private effort But it is to be remembered that the majority of European pupils are educated in secondary schools-a fact which partly explains both the larger private contribution and the higher fee rate. Also the increase in recent years has been in provincial expenditure (aided by imperial grants) It has been mentioned that in 1876 government spent 13 lakhs on this kind of school In 1897, the expenditure (both direct and indirect) from this source had risen to Rs 7,75 000 in 1907 to Rs 1654 000 and in 1912 to Rs 20 95 000 The variations in fee income are remarkable-Rs 31 11 000 in 1897 falling to less than Rs 16 00,000 in 1902, and gradually rising again to Rs 24 69 000 in 1912 These figures include boarding as well as tuition fees, the varia tions are probably due to the omission of the former in some years Subscrip tions etc, show slow but steady increase from Rs 15 00 000 in 1896 to Rs 17.62 000 in 1907 and to Rs 19.31.000 in 1912

566 Thus while benevolence plays a solid and steadily increasing part in Imperial the education of this community, the direct cost to parents and pupils his grants fallen in the last fifteen years (though it displays a tendency to rise to its former level) and expenditure from government funds has greatly in creased A new impetus has been given to private effort by the formation of Sir Robert Laidlaw's Committee which is now collecting funds for schools of all denominations except Roman Catholic schools. The great increase in state subsidies within recent years dates from the commencement of a liberal policy of imperial assignments. In 1906 the Government of India made a recurring grant of Rs 2 46 000 in aid of this class of education The objects specially recommended were the improvement of the pay of teachers enhance ment of grants for equipment and maintenance and provision of scholarships on a more generous scale A recurring grant of Rs 10 000 was also made to the Government of the Punjab for the maintenance of the training class at Sanawar Early in 1911 a non recurring grant of Rs 6 57 000 was given In 1912 new imperial assignments were made of Rs 20 000 non recurring and Rs 3 70 000 recurring These grants were distributed to provinces as follows -

	1906	1	1011		1913		Total	
Provid e	Re- 2	Non Ba	Non recurring	Ke-	Non- recurring	Se- curring	Non- recarring	Total
	Re 3	Re Ra	Es	Rs	Rs	Rs	Rs.	Rs.
Medras	40 000		80 000	82 000	20 000	1 22 000	50 000	172000
Bombay	35 000		10 0)	41,000		75 000	10 000	85 000
Bengal and Eastern Bengal and A sam	"0 000		1 67 000	1 19 000(8)}	1 89 000	1 67 000	3 56 0 10
Un ted Provinces	50 000		2 00 000	47 000			200000	2 97 000
Punjab	37 000(a)		1,50 000	34 000			1 0 00	2.25 00
Burms	13 000		50 000	31 000		43 -00	50 000	93 000
Central Provinces and Berar	12 000		50 000	13 000		20 000	50,£00	75 000
Total.	2 56 000		6 57 000	3 70 000	20 000	6,26 000	6,*7 000	13 03 000

If it is permitted to look beyond the quinquennium, we find that in 1013 jet other grants were made, aggregating 1ks 23 00 000 non recurring and its 3,00 000 recurring. Thus, aprit from the grants of 1006, and aprit from any increase in provincial expenditure, the imperial grants given in the pist three years amount to £231,800 non recurring and £44 666 annually recurring.

General position 567 The features of the quinquennium have been a more generous treat ment of the institutions designed for this deserving and useful section of the population through the application of the new code of 1900 (some of the returns of which will presently be described) and of liberal grants. Six A Bourne says of Madras. Having in view the geographical distribution of the schools which leaves no centre of Luropean population without at least one the operation of the provision in the code for the resisted education of children whose parents live in places where there is no school and the activity of the oriphianges there is no reason to think that the supply of Luropean education does not adequately meet the demand for it. Mr Godley also writes of the Punjab —

The subject of Luropean educati a in India has of lite! en attracting much attention and somewhat sweet jug assert in has, been mile regarding the medicinery of the selools and the madeguacy of the government grants. Whitever may be the case in other jurts of India it would be a nistake we suppose that in the Junjah the problem has not been furly dealt with in the just or that there is greated reglect. Here, is sufficient selool accommodation for the comparatively small number of children it may rate for grid. Flanks to the unatural effects of the runos orders the members of 5t Hidda's Secret and other devoted workers and also to liberal assistance from government education is attainable at a very moderate cost. There is no class of Lurope nor high-indian children in the province growing up without education for want of school facilities. Jovetly or migrovidence of parists may cause hardship in individual instances such cases lower occur in every country and can only be satisfied in provided when the concessors offered by the extlespisten of clusterion or concessors offered by the extlespisten of clusterion are supplemented by provide charge. Association the lungh Masonic Institute and by indigent grants from government. Money could doubtless be devoted with also had a highe to improving the school saffs and the quality of the terching but a pessinistic view of the future of Luropean education in this province does not seem to be a surranted by facts.

Conference of 1912

568 The problem, however, is one of such importance to a community, small in size but for whose very existence the present form of government is responsible that it was deemed advisable to hold a representative conference in Simla in 1912 which is hereafter referred to as the conference of 1912 This conference was presided over by the Houble Sir Harcourt Butler Men.ber for Education in the Viceroy's Council There were in addition thirty nine representatives of all interests including the Bishops of Bombay and Lahore the directors of public instruction and persons engined in active educational work in schools of different denominations. The Honble Mr Sayıd Alı Imanı Law Member of Council and the Most Reverend Arch bishop Kenealy also attended some of the sessions. Many important and practical resolutions were passed Those which called for most urgent treat ment dealt with the subjects of extension of education to children who do not now attend school and the improvement of the pay and prospects of teachers Others dealt with the grading of schools the training of teachers the foundation of a college for Europeans grants in aid examinations and certificates scholarships and medical inspection and supervision. Some of them are noticed in detail in the last section of this chapter

111 -Institutions

Managen ent

569 Out of the total of 399 institutions for Europeans only twelve are maintained by government 350 are aid-d 22 are unaided. The schools are generally managed by religious bodies. Those invitational by government, by committees by rulway companies and by fiviate individuals are un denominational. It has been estimated that about fifty per cent of the children at school are educated in Roman Cutholic schools. In Bengal for unstance the pupils are distributed as follow—in Roman Cutholic schools 59 per cent in Church of England schools 16 31 per cent in Nou Cou

formist schools 60 per cent in Church of Scotland schools 355 per cent in schools under Jewish management 17 per cent in government schools 35 per cent and in schools under other undenominational management. 13 0 per cent In Bombay we find that 43 schools are Roman Catholic in 33 the pupils are brought up in the Church of England and ten are manage I by other Protestant bo hes

570 Where educational institutions are of a denominational character Concentration overlapping is inevitable. The existence of overlapping is mentioned in five of the provincial reports In Madras and the Punjab this has been to some extent remedied by the amalgamation of higher schools. In the latter province the ideal is that secondary education should be given as far as possible in bourding schools in the hills while schools in the plains should be of the primary type save at I ahore Though Mr Godley says that the ideal is not likely to be fulfilled in the immediate future a certain amount has already been done by abolishing the higher classes in some of the plains The general question was considered by the conference of 1912 and a resolution was passed urging the desirability of concentration

571 In 1907 Mr Orange remarked that there were attached to the schools Colleges for general education fifteen college departments giving a so-called univer sity education but that only four of these were affiliated nominally to a higher standard than the intermediate in arts and that none in fact amounted to more than being the top class of the school in which a little

special teaching was given for the university intermediate examination. It is extremely doubtful he wrote whether the universities will permi the continuance of the afaliation of these classes especially as in the majority of these schools the college departments contain no pupils The prophecy has been fulfilled Only six of these collegiate classes survive-one in Madras and five in the United Provinces four for women and two for men The number of their pupils is 37 against 59 five years ago This however does not represent the total number of European students reading in arts colleges More read in institutions for Indians than in these so called colleges for Europeans The total is 208 against 150 in 1907 The question of establishing a college specially for Europeans was debated at length at the conference of 1912 A considerable body of feeling was in favour of a separate and self contained course for Europeans from start to finish and notwithstanding some weighty opinions to the contrary the conference recom mended the establishment of a separate university arts college affiliated to a western university or conferring its own degrees in default of this graduate courses in arts and science attached to a training college for teachers-sucl as (see paragraph 597) has been proposed at Bangalore. The erection of hostels for men lers of the dom ciled community in connection with existing colleges for Indians was also advocated

572 It is unnecessary to speak here of the ordinary schools Their Schools organisation will be described later on It will suffice to notice that nearly all are of the secondary grade There are 124 high schools and 149 middle schools these taken together contain 28 904 pupils Primary schools number only 77 and their pupils 3527. An education ending at the primary standard is regarded as of little use for this community though good institutions of the elementary grade have been established in Bengal

573 Professional training is given mainly in colleges for Indians Some Professional times as in the engineering colleges at Siburi and Roorkee special facilities training are offered to Europeans. The total number reading in professional colleges is 333 against 338 in 1907 (see supplemental table 198). The number reading is 333 against 338 in 1907 (see supplemental table 198) The number reading law remains insignificant. There has been a decrease of those in engineering colleges counterbalanced by an increase in medical colleges. The decrease at Sibpur is deplored by the principal as a loss to the college he considers the excellence of the training and the ease of finding employment are not realised The total of male professional students has slightly increased

that of women has fallen from 74 to 57 574 The number of industrial schools has risen from five to fourteen Industrial those classed as other schools have fallen from twenty one to ten (see supple training

menual table 192) Pupils undergoing industrial and technical education

have risen from 167 to 525. Among these institutions may be mentioned St. Aloysius School at Vizigapatam which has excellent buildings and plant the sub outcore classes at the Victoria School Kurseong, the Jamalpur and Kharagpur night schools for rulway apprentices and the Calcutta Technical School the night schools for apprintices of the Oudh and Rohilkhand and the Great Indian Peninsula Railways, and the industrial class at St. Francis de Sales School at Nappur. In communial schools the numbers have risen from 106 to 258 the increase being almost entirely among girl pupils. The largest institutions are the commercial classes attached to the Y. M. C. A. and the Y. W. C. A. in Calcutta.

A certain amount of industrial training is imparted in the general course (e g in the higher elementary schools of Bengal) or in classes attached to ordinary institutions. Thus the Lawrence Asplain Ootacamund has a telegraphic classes, that it Sanawar and the Lahore Cathedral Orphanize have carpentry classes, the Boys Orphanize at Lahore in commercial classes. Bind music is trught in the Lawrence schools and there is also a special school of this subject for Turopeans in Madras. Domestic economy is taught to girls at St. Helen's Convent in Bengal and elsewhere. The Other Convention of the State of the Convention of the State of the Convention of the Convention Rudway has excellent technical and domestic science classes of which an interesting recount is given in the latest report on the schools of that rudway. Special mention will presently be made of the Woodburn Cottage Homes. Kalim Poppe.

A umbers under special instruction 575 As regards professional and technical and industrial education in the control the total number of pupils under such instruction has decreased from 1833 in 1907 to 1631 out of which nearly half are women. The contraction is not explained in the reports but may possibly be due to some change in classification since a remarkable drop has occurred in those shown as enrolled in other schools. Decrease has also taken place in the numbers in medical schools. The total number undergoine these forms of instruction is his no means insignificant when the strength of the total community is considered. The following passage from the report of the United Provinces is worth quoting in this connection.

To any t select for Paropean and Anglo-Indian apprentices of the Ondh and Rahill and Rahiev has ago red a separate builting of its own and has mele additions to its equipment and furniture. Its work las been estafactors and well organized but its emissions las fallows are required but its emissions last statements last fallows graduitly lumps the quantitations of the reson given in that not sufficient applicants with the required educational qualifications were forthcomor. The inspector says. More apprentices would have been taken on if more well educated last had offered. The small number of comparatively well educated lasts offering was rather surprising considering the good protects before a cleaver well educated last in the superior considering the good protects before a cleaver well educated last in the lager branches and common sense win a known him work. Such means are constantly required in the lager branches and counted always be found? This is an illuminant up fact in view of the general complaint of the practicy of openings for Europeans in Ind.

Orphanages

576 There are a fair number of orphanages for the education and up bringing of waifs and strays and children of the indigent. Here the various missions assisted by special grants under the code do admirable work Bengal report specially mentions Canon Jackson's school in Scott's Lane the schools of the Loreto Auns and the free day and boarding schools of the Christian Brothers These are in Calcutta At Kalimpong in the Himalaya are the well known St Andrews Colonial Homes of the Church of Scotland Mission managed by Dr Graham The children are got hold of when young carefully trained among healthy surroundings and in good climate and brought up to useful employment There are 343 children in Subscriptions and legacies to the homes have totalled just under five lakhs in the past quinquennium while the government grant and fees average each about a quarter of a likh per annum. The children are accommodated in separate houses. In the Woodburn Cottage Homes there are agricultural and technical classes. The girls have domestic training throughout No domestic servants are permitted all household work is done by the children under the guidance of the supervising bodies There is also a regular class for training children's nurses. During the quinquennium an Assam Cottage was added to the houses at halimpong Here 32 boys

are educated The subscriptions raised in Eastern Bengal and Assam towards the maintenance amounted to over Rs 8 8000 in 1910 11 As Mr Prothero remarks India wants more Kalimpongs

II - Special features

- 577 It is a peculiarity of European schools that they are organised under The code is code substantially the same for all India. This code is the outcome of the conference of 1901 and of the recommendations of the Hill Schools and Mr Pope's Committees proviously mentioned It was circulated to Local Governments and finally published in 1905 for adoption with such modi fications as the circumstances of each province might require These modi fications were contingent on the approval of the Government of India but this restriction has been removed during the present quinquennium and Local Governments can now make alterations without reference save where the alterations proposed appear to constitute a fundamental departure from the principles on which the code is constructed. The features of the system can best be studied in the light of its regulations and the changes effected during the quinquennium. In some respects provinces have naturally drawn apart in their adaptation of principles. But the chief characteristics remain On the whole says Mr de la Fosse the new code has proved a success The inspector of European schools in Bombay also notices that it has produced good results and more sensible methods
- 578 In order to receive scholarship holders to present pupils for depart Recognition of mental examinations and to obtain other benefits it is necessary that Euro selools pean schools even if unaided submit to inspection prove their necessity and their financial stability possess a properly constituted managing body and obstain from injurious competition in the matter of fees.*
- 579 The standard classification laid down in the code comprised primary Class fication middle and high schools or rather stages. The first stage ordinarily contains of schools one or more infant classes and four standards the second three standards the third two or more standards leading up to the final examination. Thus the school course is one and unbrol en—a series of nine ten or more standards from bottom to top. Two notable modifications have been introduced during the quinquennium the one intended to offer a bifurcation at an early stage and thus to provide a complete course for those whose school career must per
- in the high stage for those who seek a professional or a business career 580 The former change took place in Bengal as the result of a committee which sat in 1910 The elementary school in Bengal now offers a complete course—that is it contains an infant stage and six standards intended to cover nine years up to the age of fourteen. The fourth standard corresponds with the preparatory stage in a secondary school this permits of transition to the latter at the age of twelve transition is also possible (though less con venient) from the fifth and sixth standards. Thus from the age of twelve to that of fourteen a pupil has two alternatives—he may transfer himself to a secondary school or he may remain in the elementary school undergo a com plete course and obtain a certificate Furthermore if he then desires to con time his studies on strictly practical lines he can proceed to a higher elementary school. These institutions are few in number. They provide higher general and supplementary courses—commercial industrial agricultural stricts. cultural and domestic. They carry a pupil on to his seventeenth year when employment becomes possible. The scheme of instruction laid when employment becomes possible down for these classes" writes Mr Prothero while providing for a continuation of the general education of the pupils is of an eminently practical nature and is much better suited for boys and girls who have to leave produced manufacture and is much neutral states for costs and girls who have to many school at a comparatively early age in order to make their living than the corresponding course in a secondary school leading up to the junior Cambridge local. Though regarded at the beginning with grave suspicion—parity as forming a new departure and parity on account of the designation ie higher elementary-they are gradually winning their way into public

force be of minimum duration the other calculated to offer alternative courses

favour and have already elicited the approval of those who are acquainted with the educational wants of the poorer classes of Anglo Indians also has instituted a middle course complete in itself for those who do not seek a high school examination

581 As to the second change Bengal has re-classified her secondary schools As a corollary of the modification just described the middle stage has ceased to exist and instead we have the secondary and higher secondary The former prepares for the Cambridge junior local the latter for the senior This change may be regarded as munly the effect of an alteration of the examination system In Madras and the United Provinces it has been recog nised that a single type of high school affords insufficient scope for differentia In Madras considerable elasticity is now permitted Three alternative courses are there provided for middle schools two of which lead on to two different types of high schools while the third is for those pupils who are not likely to proceed beyond the middle standard The two types of high schools prepare the one for the university and the liberal professions the other for business life Sir A Bourne remarks of the arrangements This attempt at differentiation has not elicited much response from the schools Practically all of these are maintained with mixed aims and they are not large enough nor sufficiently well staffed to have classical and modern sides. The courses of study are still for the most part those which were stereotyped by the matri In the United Provinces it has been decided to adopt culation examination two staple curricula one literary and one scientific the bifurcation beginning at the middle stage The conference of 1912 adopted a resolution with similar aims-namely that the majority of high schools should teach a more modern and practical curriculum while a few should be termed collegiate schools and prepare for the university and liberal professions the decision as to the character of each resting with government

Courses

582 The code laid down courses for the primary and middle standards These must be distinguished from the subjects prescribed for examination which do not always cover the full course. The subjects of the course are divided into compulsory and optional In the primary school the compulsory subjects are English arithmetic geography object lessons kindergarten drill and (for girls) needlework the optionals are Latin French German verna cular drawing and singing. In the middle school the compulsor, subjects the English arithmetic geography history object lessons and drill with (for boys) algebra Euclid and mensuration and (for girls) domestic economy and needlework the optionals are Latin French German vernacular physics physiology drawing singing and manual training. The subjects laid down for high schools are those prescribed for the high school examination, here the pupil takes English and arithmetic as compulsory and may also take not more than seven out of a list of eighteen optionals choice however is restricted by the rule that boys must take algebra Eucl d and a second language among the optionals and girls must take domestic economy

Changes in

583 Such was the course as laid down But it was realised from the courses arising outset that defects are unavoidable in drafting rules applicable to all classes out of different of schools in all provinces. The Government of India expressed their opinion carses that it would be necessary to amend the code in the different provinces after considering the needs of typical groups of «chools and they invited modifical The curricula outlined required and have received definition by means of syllabuses Reclassification of institutions and the prescription of new examinations have served to bring about changes to which allusion has already been made or will be found in the succeeding paragraphs On the whole the changes effected may be regarded as due to (a) provincial requirements (b) the tailure to distinguish between courses in the middle stage for those who will conclude their studies at an early age and for those who will continue them (c) a similar difficulty in the high stage which while permitting excess sive choice of optionals provides no organised bifurcation for those who would pursue a business career and those who propose to proceed to the university (1) alterations in the examination system

584 The standard curriculum, with slight internal changes, was adopted (a) Provincial in Madras, the United Provinces, the Punjab, Eastern Bengal and Assam and requirements. the Central Provinces Bengal modified the classification of schools as already described In 1910 Eastern Bengal and Assam followed its example Madras and the United Provinces have since adopted or decided upon a bifur cation in the middle and high stages Bombay and Burma prescribed courses of study different in some essential points from the model and suited to their special requirements In Bombay, the primary course omits kindergarten as a separate subject (while insisting on it as a method of instruction—surely a wise departure) and drill and adds history and drawing as compulsory, object lessons are also omitted but observation lessons may be given middle omits mensuration, object lessons and drill makes practical geometry compulsory for all, Latin compulsory for boys, and (besides needlework, which remains compulsory) allows girls to choose two out of three subjects-(1) domestic economy, (2) algebra and geometry, (3) Latin, French or a local verna cular The optionals, of which one at least must be taken by boys and one only may be taken by girls, are also slightly different. The high course compulsory subjects are -for all English, arithmetic, geography, English and Indian history, for boys, algebra and geometry, Latin or elementary science, for girls, two of the following—(1) domestic economy, (2) algebra and geo metry, (3) French Latin, or a local vernacular or elementary science. There are also optionals, of which at least one may be taught, they include commer cial instruction In Burma the revision was undertaken by a sub committee in which heads of institutions participated, and after consideration by the Education Syndicate and the department was adopted by government in Mr Covernton thus describes the changes -

"The ner courses for boys computes computery optional and additional subjects Computery subjects are those in which a pupil must pass, they include English arith metre, geography, mathematics, English history and a second language Optional subjects are another language sciences, higher English, higher mathematics history of India, one optional is required in the middle stage and two in the high stage. Additional subjects do not count toward a press, they comprise drawing singing object lessons, shorthand and typing manual instruction drill and hygiene the terbing of the last two being obligatory. The girtis curriculum follows a similar three fold division of subjects, but includes subjects suited to the need of girts it?, needle work, tress making and domestic economy. A second language is not compulsory for girts, but on the other hand they have to take more optionals than boys do."

In this connection may be mentioned the controversy which centres about the compulsory prescription of Latin and a vernacular, which was strongly advocated by the Hill Schools committee Bombay has Latin as compulsory for boys in the middle scholarship examination, Bengal insists on instruction Bengal also insists on the study of a vernacular in both primary and secondary schools, the Central Provinces alone prescribes a vernacular as a compulsory examination subject at the middle and high stage. Else where these subjects are not compulsory. The question of vernaculars was debated at the conference of 1912 when the utility of the knowledge of a vernacular was urged on the one hand, the practical difficulty of teaching it, the ease of acquiring it out of school and the inadvisability of placing any obstacle in the way of instruction in Latin were put forward on the other No conclusion was attained, and perhaps the question is essentially of a pro But it is interesting to note that an attempt is being made vincial character in the military school and training class at Sanawar to put the teaching of Urdu on a scientific basis

585 Bengal has recognised the desirability of affording alternative (b) Early courses for those who will leave school as soon us they can enter a calling and bifurcation for those whose means or intelligence justify a continuance of study. The system has already been described whereby a boy can effect easy transition (preferably at the age of twelle) to a secondary school or continue in an elementary school and proceed to higher elementary classes. The course in these classes consists of two parts—first general, subjects, comprising English literature and composition arithmetic (with special attention to application and practice in expertness of calculation) the keeping of ordinary accounts and drawing, second one or other of the four supplementary courses viz,

commercial industrial agricultural and domestic. As examples the subjects included in the two last may be recited. The agricultural course requires a study of mensuration (with reference to land mensurement and surveying), elementary agricultural botuny, chemistry and geology, newspaper market reports, and the repair of agricultural implements. The domestic course comprises cookers and general household management, dress making embroudery and lace making, sich nursung and dispensing.

(c) Later belurcation 586 The bifurcation of middle schools in Madras (already described) partrills belongs to the category of changes described in the preceding partraphs since it offers a complete course for those who will proceed no further the bifurcation of high schools in that presidency and in the United Provinces as well as the resolution adopted by the conference in frourior of this modification has been described in connection with the classification of schools. Of the causes which led to this decision in the United Provinces and of the nature of the proposed remedy, Mr de la Posse writes.

The rounse of studies in it each are considered two states and it a number of soft options in the high school examination has intrincted adverse remark. The department I as been in consultation with sel ond authorities during the greater part of the quinquenium with a rewer do deviaing courses which shall meet all needs and vet supply a soil if grounding and a liberal education. The task last been one of extreme dishcults rund has meant an immense amount of lid our and thought in reaching finality. The work is now at last complete and the heads of important mutuitions have signified their read ness to introduce the new scheme of studies. Briefly at has been decided to adopt two staple curricula one literary and one scientific the bifurcation beginning at the middle stages greater importance is attacked to it eventuciar and optional courses have been framed to meet the needs of girls. These curricula have not been prescribed for universal use but are to le treated as specimen courses and cating the standard and arrangement of studies which schools should follow for one of the objects of the curricular points of the objects of the course of the course of the objects of the course of the course of the objects of the course of the course of the objects of the specimen of studies which schools should follow for one of the objects of the objects of the specimen of the objects of the department. Memoranda on the aims and methods of teaching it evarious subjects have also less drawn up for the quadance of teaching the standard of teaching the various subjects have also less drawn up for the quadance of teaching the course of the objects of the department.

In Madras the effect of the experiment has been seen and is not reassuring the schools remain mixed, and Sir A Bourne notes their comparative failure to study the real as opposed to the imaginary needs of their pupils and to adapt the training given to the former. They have in view far too much the few who may possibly get to the university and into the professions and far too little the many boys who must inevitably be content with a humbler career and the many girls who must look forward to domesticity."

(d) Examina tion systems o87 The high school course necessarily has in view the examination or certificate for which the pupil is prepared. The subject of examinations (including the effect upon the courses) is treated in the succeeding paragraphs

Examinations

588 Mr Orange described the abolition as essential tests of the depart mental examinations which used to conclude the primary and middle stages The primary examination was retained only as a test for scholarships the middle examination for the same purpose and for the attainment of a leaving certificate in the case of those who do not intend further prosecution of their for is examination always regarded as a necessary means to the award of primary scholarships Promotion is determined by teachers and managers subject to the inspectors approval (It is noticeable that the Madras report still speaks of examination qualifying for promotion at the end of the middle course) In Bengal where the elementary course presents an alternative complete in itself a leaving certificate is naturally given at its The examination is not regarded as satisfactory partly owing to the want of syllabuses and a definite standard partly owing to the difficul ties attendant on the introduction of a supplementary oral and in situ test It is hoped to remedy the former defect and to consider the question of the Elsewhere the only essential examination retained is that which closes the high school career. It is called the high school examination and comprises as already stated English and arithmetic with a choice of not more than seven out of eighteen so-called optionals of which three are obligatory for boys and one for girls

The standard examinations of the code were adopted in Madras, Bengal, the United Provinces the Punjab and Eastern Bengal and Assam Other provinces introduced local variants, some of which (with reference to Latin and a vernacular and in the case of Burma) have already been noticed But the desirability of instituting a test which would carry recognition in England and other countries, perhaps also the glamour attaching to an external examination conducted by a university have wrought a change In various provinces the Cambridge University preliminary junior and semor examinations, or the Cambridge junior and semor school certificate examinations are ousting departmental and other tests. The change has been most marked in Bengal, where in 1911, the junior and senior locals were used as the regular test for secondary schools—the former at the conclusion of two standards above the six elementary standards, the latter in higher secondary schools at the conclusion of a further two standards In that year 88 out of 176 candidates were successful in the junior local, and 59 out of 115 in the senior local results would have been better had not the teachers, in the first year, been working more or less in the dark Eastern Bengal and Assam followed the lead of Bengal, but the university has not yet recognised its schools. In Bombay the examinations are used as an alternative to the high school exami nation In 1912, out of 71 candidates of that presidency for the junior local, 42 passed, and 12 out of 35 candidates for the senior

589 No other province reports a similar change While the Cambridge examinations are much appreciated in Bengal, the feeling does not appear to be universal. In the Punjab the department has offered for the past two years to arrange for holding the Cambridge senior locals, but no school has re sponded to the offer-whence it is inferred that the departmental examination commands confidence A demand from school managers in Burma for the Cambridge locals, as ensuring a fixed standard and recognition outside India, has been by no means general, and Mr Covernton considers that the average standard of courses in the high schools is superior to that required for the Arguments of wider application have also been English examinations advanced against the adoption of the Cambridge tests Among these, three are deserving of special attention any purely external examination There are the disadvantages inherent in any purely external examination There is the difficulty of combining with any such test the value which should attach to a school record there is the danger (so strongly emphasised in the report of the Consultative Committee on examinations in secondary schools in England) of the school work being dominated and distracted by a multiplicity of aims That this is no imaginary peril is testified in the Bombay report, where we learn that many pupils have to sit for the departmental and for the Cambridge exami nations within a fortnight of each other. In this connection it should be stated that a few European schools likewise prepare for the matriculations of Indian universities though, with the more general recognition of equivalents, this plactice is growing less frequent

500 These difficulties were considered by the conference of 1912 The resolution in which their conclusions are embodied seels to combine the advan tages of a school record with those of an external examination carrying recognition in England The certificates proposed, called the first school certificate and the leaving certificate, were to be granted partly as the result of the completion of a course over three years in the one case, and a further and subsequent two years in the other, partly on the passing of the Cambridge junior local or school certificate in the one case, and the answering senior tests in the other. Ordinarily a school would be compelled to make choice of the Cambridge locals or the Cambridge school certificates as the external test, and would not be permitted to prepare for both The leaving certificities thus obtained should if possible be adopted as the passport to subsequent careers

591. It was stated in the fifth quinquennial review that scholarships of Scholarships Rs. 8, Rs. 12 and Rs. 20 a month are awarded at the end of the primary, middle and high course. The rates have now been changed. Thus, in Bengal there are now 18 elementary scholarships of Rs. 12, four junior secondary of Rs. 12, sus, senior secondary of Rs. 20, three collegiate scholarships of Rs. 30, and two final scholarships of Rs. 40. These are for children of the domiciled com

munity In addition schola-ships tenable in European schools are awarded under the Bengal Code to Jews, Parsis and Armenians In Eastern Bengal and Asam the primary scholarships have been raised to Rs 12, the middle to Rs 15

592 In addition to scholarships tenable in European schools in India, there is a scholarship of £200 a year tenable for three or four years in England, which is annually awarded by the Government of India on the recommendations of Local Governments. This scholar-hip was established in 1907 Candidates must be not more than 22 years of age must have studied for the two preceding years at a recognised school or college and must have passed the high school examination or its equivalent, or be graduates of an Indian university. The scholar is required to study at a university in the United kingdom or with special sanction, at a foreign university.

Grants-in-aid

593 The committees which considered European education after the Simla Conference of 1901 were in favour of some form of salary grants. For various reasons the suggestion was not accepted duced of ordinary grants based on attendance. But this is by no means the only kind of grant that can be earned. When it proves insufficient, a supplementary grant is permitted. Ordinary and supplementary grants may be converted into fixed grants. Special terms are oftered for schools serving a spare or poor European population or for schools recently started.

As regards the maintenance grant the ordinary system is to allow annual grants in the infant class of Rs 20 for each of the first ten pupils, Rs 15 for each of the second ten, and Rs 10 for each of the remainder, in the primary section Rs 25 for each of the first twenty pupils, Rs 20 for each of the second twenty and Rs 15 for each of the remainder, in the middle section, Rs 40 for each of the first twenty pupils Rs 30 for each of the second twenty, and Rs 20 for each of the remainder, and in the high section, Rs 120 for each of the first five pupils, Rs 90 for each of the second five, and Rs 50 for each of the remainder These are the rates (with slight readjustments in Bengal to suit the classification) in Madras, Bengal the United Provinces, Eastern Bengal und Assam and the Central Provinces In the Punjab the rates are preserved which are shown in the last review These are slightly higher in the three lower sections than the rates just recited, but are much lower in the high ection, consequently, they probably give a result more favourable to the schools Bombay and Burma have adopted quite different systems. In Bombay there is no attendance grant, the ordinary grant is calculated at one third of the expenditure as admitted by the inspector, and sometimes a supplementary grant is given equal to one-third of the ordinary grant. In Burma the ordinary grant is the difference between income and expenditure under limited conditions Further the system of salary grants previously rejected on account of its complicated nature and for other reasons is found in Burma the United Provinces and the Punjab as a supplement to the salary grants

In all provinces save Burma the ordinary grant may be enhanced by a supplementary grant, and both together may be converted into a fixed grant renewable every three years. There are special rates for places where Europeans are specially poor or few Grants of Rs 8 a month are given for orphans and destitute children. Cadet grants are given of Rs 6 a vear for each efficient and Rs 8 for each extra-efficient. Special grants are offered for night schools. Building grants may be one-half or two-thirds of the total cost.

While the grant for orphans and destitute children is permitted in recognised orphanaces and boarding "chools grants for free day schools are no longer provided save in Bombay. This is considered to have proved a hard ship in day "chools which draw their pupils from poor localities. Another point and one which was raised at the conference of 1912 is the existence especially in Roman Citholic schools of impaid teachers belonging to religious denominations and the desirability of taking their services into consideration in uny scheme of salary grants or grants calculated upon expenditure. In the Punjab subsistence grants are permitted to such teachers

594 The luck of trained teachers in European schools is everywhere Teachers and deplored. The profession of teaching does not hold out sufficient attraction training (as compared with other available careers) to induce men to enter it. With women the problem is less acute. There is only one class specially for training mem—that at Sanawar and only fifteen men are returned as undergoing training. There are nine institutions for training girls and the number under training is 219.

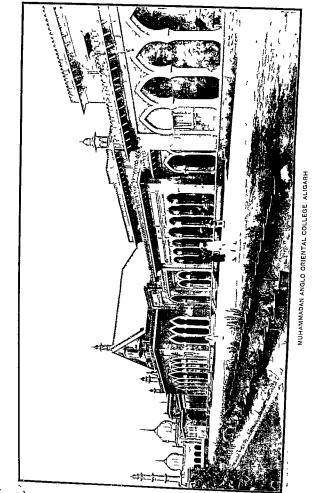
The reports show the following figures regarding certificated teachers -

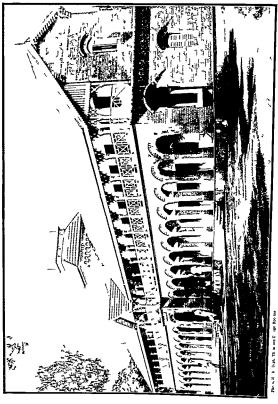
	Total nun ber of fea hers	tumb of etfinted enches
Madras	581	412
Bombay	693	229 (nelud ng
Bengul and Eastern Bengul at 1 Assan	640	138 Fngl de
United Provinces	396	173 teacl ng
Punjab	200	139
Burma	203	101
Central Provinces	115	25
	2 828	1 290

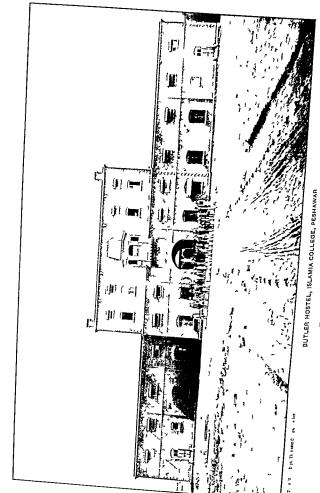
Since not all the provinces have supplied figures in a few cases the cal culation has had to be made upon the data supplied to the conference of 1912 and for this reason it is not possible to show separate figures for Bengal and for Eastern Bengal and Assam In those provinces and in Burma graduates have also been shown as trained teachers since in the information then collect ed the two qualifications were regarded as more or less equivalent. In other provinces however this has not been done. As a means of correcting the discrepancy it may be added that from the figures collected for the conference it appears that in British India (including Bangalore) the total number of terchers was 3005 * those with the BA or higher degree of an English or American university numbered 155 those with similar degrees of Indian universities numbered 104 those without any degree but trained numbered 1006 and those with neither degree nor training numbered 1680 No information was available in respect of 60 teachers. Unfortunately the term certificated is not always synonymous with the term trained again there is doubt regarding the various kinds of certificates Owing to the latter fact the statistics minimise the number of qualified teachers since they do not take account of the admirable training which is undergone by many of those who work in Roman Catholic schools. On this subject the Bengal report says. To give a balance to this pancity of trained teachers it should be remembered that no fewer than 29 of the 71 secondary and primary schools are managed by the Jesuits the Loreto nans and the Irish Christian Brothers who are satisfactory teachers and who have passed the examinations of their own orders. Their pupils are uniformly successful at pullic examinations'

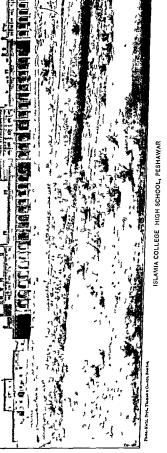
595 Of the ten institutions mentioned above three are classed as of the collegiate grade. These are situated in the Punjab. But a more satisfactory classification is according to the sex of pupils. As already stated the only institution for men is the training class opened at the Lawrence Military Asslum Sanawir. The Hill Schools committee had recommended an institution at Allahabad instead of this the Sanawar class was founded in 1907. It is under the Government of the Punjab but the Government of India give Rs. 10,000 a year towards its upkeep and pupils from any part of India are eligible for admission. There are fifteen stipends of Rs. 40 a month. The Local Governments which send students for training pay these stipends. The course is ordinatily of two years but graduates or those who have had three years of experience of teaching take a one years course. The experiment was at first not very successful. The class is now doing good work and there are 15 students in residence only four of whom are from the Punjab itself.

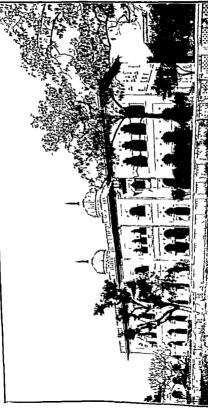
[•] The total exceeds that given above because it includes Bangalore (not included in the reports) and also certain ass stants who can hardly be deteribed as teachers











The same

Photo Mee'l, Dryt. The men Go sye Boorkes.

CHAPTER XVI

EDUCATION OF MUHAMMADANS.

I -Attitude of Mulanmadans towards education

600 The Muhammadan population of British India comprises Remoid of 57 9,00 000 souls—227 per cent or the total population. It thus forms a difficulties large minority differing from the rest of the community in religion tradition ideals manners the language of its sacred and classical literature and the readin ss with which it has acquiesced in the prevailing educational system. Its needs require special measures and the account of its progress demands separate treitment. The pre-ent chapter deals with the utilitide of Miham madans towards education the general advance made during the quinquen nium the means taken to encourage the entry of their youth into institutions for instruction of all classes and the characteristics of their special schools

601 The chief point about the Muhammadan community is that 'while the obstroles it encountered in elementary instruction have been successfully removed * it is still very buckward in the field of higher education It had long lagged behind the Hindu population and has much lee way to make up When the control of the country passed from its Muhammadan conquerors and later when Persian ceased to be the language of the courts the Muhain madan showed himself less ready than the Hindu in adapting himself to the new conditions He did not seize the opportunities offered of western education or of entry into public life He sat apart wrapped in the memory of his traditions and in the contemplation of his ancient literature and bygone systems of science Not only did his relig ous tenets often actually appear to forbid him the learning of English but the obligatory study of the Koran and (in certain areas and among certain classes) the almost equally obligatory study of Urdu Persian and to some degree of Arabic retarded individual progress in education In the case of a young Muhammadan the teaching of the mosque must precede the lessons of the school He enters school later than the Hindu He must commonly pass some years in going through a course of sacred learning before he is allowed to turn his thoughts to secular instruction The years which the young Hindu gives to English and mathe matics in a public school the young Muhammadan devotes in a madrassa to Arabic and the law and theology of Islam"

602 These difficulties are gradually disappearing. The new feeling which has arisen among Muhammadans towards both elementary and higher education is evinced in rising numbers and in the formation of the All India Muhammadan Anglo Oriental Educational Conference with a standing committee and provincial associations. The steady efforts made by government to ameliorate the lot of a somewhat backward section of the population are more and more appreciated. The attitude of the leaders of the community to education (including western education) is more and more favourable—provided always that religious instruction is not neglected. The advance has been more than intuited. The problem that now faces the Muhammadan is the maintenance of religious observance and discipline aimid the disintegrating influences of higher secular education.

II -Progress during the quinquennium

603 The number of Muhammadans under instruction in all classes of General unitarities is 1551 151 against 1 172 371 in 1907 (See supplemental tables increase of 214 and onwards) This increase represents nearly 32 3 per cent on the pre pupils vious figure against 25 8 per cent in the case of pupils of all classes in India. This in itself is strong testimony to the advance they have made Indeed the

*In the districts which he will ted Mr. Adam found that Hindus were to Muhammadans in the proport on of rather more than two to one, but Hindu projets in the proport on of about eighteen to one Mull anumada pupi. (I Me Calcutta Review Volume II page 2023)

percentage of Muhammadans at school to the total of pupils of all creeds at school now just exceeds the proportion of the Moslem population to the whole population, the latter is 22 7 per cent, the former is 22 9 per cent In some localities the percentage at school considerably exceeds the percentage of Hindus, thus in the United Provinces 13 4 per cent of the Muham madans of a school going age are under instruction, and 9 3 per cent of the Hindus Of the total number at school 1.337,954 are boys and 213,197 are girls. This latter figure is noticeable as representing an increase of over 75 per cent upon the number of girls at school in 1907. That the figure of literacy is low among Muhammadans as compared with Hindus is largely due to the fact that education has made rapid strides in the former community during the past ten years, and its effects are not yet fully shown.

604 Thus the Muhammadans now fully hold their own in educational institutions regarded as a whole But it has often been remarked that they seek instruction in Koran schools which are resorted to for religious rather than educational purposes and that though they have begun freely to frequent primary schools they do not pursue their studies into secondary or collegiate institutions This is due to their religious instincts their poverty and the indifference which they have generally manifested towards western education The second two of these obstacles have been partially removed by the applica tion of special scholarships and the awakening of the community to an interest in higher instruction. It is to be remembered that over large areas the Muhammadans are included mainly in the cultivating classes who only proceed to secondary schools in exceptional cases has been greatly accelerated in the pist five years. In the first place, while Muhammadans continue to patronise private institutions in numbers quite out of proportion to their strength in the population the pupils so studying have decreased since 1907 from 248 470 to 234 153 On the other hand those in public institutions have increased from 923 901 to 1 316 998 or by 42 per cent The increase is to be accounted for partly by a greater influx into secular schools partly by the transfer of Koran schools and maktabs (not necessarily at the sacrifice of their religious character) to the list of public institutions In the second place while the increase among those in primary school pupils has been comparatively small the increases in arts colleges and in secondary schools represent not far from a doubling of the pupils while that in special schools has more than trebled. In professional colleges (save those for the study of law) there has been no decided increaseindeed there has in some cases been retrogression. Among special schools those for training as teachers and those for technical and industrial instruc tion exhibit increases of Muhammadan pupils in the one case from 1 102 to 2 104 and in the other from 1 488 to 2 520, but the great advance in the numbers enrolled in special schools as a whole in reality represents enhanced numbers in madrassas and the transfer of maktabs etc to this class of insti tution

605 The increases in public institutions are tabulated below -

	Number of Muhamn adan pup le n		
Class of said tetion	190*	1913	Percentage of
Arts Colleges	1 569	3 095	973
Professional Colleges	471	664	41 0
Secondary Schools	70 614	133 527	89 1
Mildle Vern cular Schools	35 375	37 754	67
I rimary Schools	78~ 173	1 022 ~68	29 9
Special Schools	28 699	119 190	315 3
TOTAL	923 901	1 316 998	425

Accordingly the increase has not been in numbers alone. A far larger proportion of Muhammadans now seek higher forms of instruction than previously The totals, however, are still low in institutions other than primary, when compared with those of all creeds This is shown below —

Class of a st tut on		Ferce tage of Muhammadan pul ils the total number of pap ls of all e eeds n var ous class is of public institut o	
		1,107	1719
Arts Colleges		81	10 4
Professional Colleges		7.5	100
Secondary Schools		14 0	190
Middle Vernacular Schools		168	170
Primary Schools		20 0	20 5
Special Schools		42 1	66 2
	Average	19 5	21 5

The lee way to be made up in secondary and collegiate education is particularly noticeable. But, as a sign of improvement, it is to be observed that in Bengal ten Muhammadans passed the M A in 1911 12 against five in 1906 07, 40 graduated against eleven, 106 passed the intermediate against 54, and 261 the matriculation against 123. In Eastern Bengal and Assum fifteen graduated against one in 1906 07, 73 passed the intermediate against twelve, and 296 the matriculation against 95, while the number in arts colleges rose from 71 to 560.

606 The following table demonstrates the percentage of Muhammadans Comparison to the toal population in different provinces and the percentage of Muham uthe other madan pupils to all pupils in public institutions—

Prov ce	Percentage of Muhamn adau population to total pripulation	Percentage of Mula made pup is to total of pup is of all class a in public at int one in	
		1907	1,12
Madras	6 6	8.8	90
Bombay	181	164	166
Bengal	171	139	17 4
United Provinces	14 1	146	152
Punjab	548	39 1	38 3
Burma	3 5	30	36
Eastern Bengal and Assam	58 5	48 7	520
Central Provinces and Berar	37	9 1	93
Coorg	7.5	4 4	32
North West Frontier Province	928	63 2	63 1
∆ verage	22 7	19 5	21 5

With the addition of private institutions, the total percentage would be 22.0 In Madras Bengal the United Provinces Burma and (especially) the Central Provinces the proportion to the number at school exceeds the proportion to the total population. In all these areas the number of Mitham madams is comparatively small and (it may be surmised) largely resident in cities where educational facilities are available and educational attailments a more necessary asset than in villages. The advance in the two Bengals has been marked. The backwardness shown in the Punjab figures is attributed to the fact that the Mithammadams of that province in particular belong to the agricultural and lower working classes.

607 The rest of this chapter is devoted to the problems and characteris. The problem tites of Muliummadan education and the manner in which some of the former in different tites of Muliummadan education and the manner in which some of the former in different tion of Muliummadans to the population of each province as shown in the pre-ceding table. If the North West Frontier Province the education of Muliummadans is the education of the people there is no conflict with other interests. In Sind also the population is almost wholly Muliummadan. In Eastern Pengul and Assum and in the Punjab over half the population is Mussalmun, but in the former province the educational interests of the

Muhammalans had long been ignored. Flewhere the proportion is small Perhaps it would not be quite correct to say that the difficulties of the problem vary inversely with the proportion. The reports would seen to indicate that it is in a province situated like Rengal that special measures are at once most need, dund most efficacious.

III - Vukamradans in ordinary institutions

Special concessions 608 Government support and private liberality combine to offer special inducements to Muhammadans to enter the ordinary educational institutions intended for all classes. The inducements generally take the form of exemption from fees and scholarships, the provision of hostels and modifications in the curvalum.

(a) Fee exemptions and scholarships in the curriculum 609 Muhammadans are frequently admitted to schools on easy terms When the numbers are few this is both desirable and feasible and parts of Bombay Muhammadans are allowed to read at half fees and in some cases free. In the Punjab special concessions are also allowed. In Bengal and Lastern Bengal and Assam in addition to the 5 per cent of free pupils afloyed in government and aided secondary schools 8 per cent of the number of Muhammadans (limited in Bengal to a total of twelve pupils) are allowed to read free while the Mohsin fund provides half the fees in the case of many other pupils. In all these provinces again special scholar ships are reserved for Muhammadans and there are also a number of private scholarships such as those paid from the income of the Mohsin fund in the Bengals In Bombay scholarships ranging from Re 1 to Rs 8 are given in local Loard schools for Alimurad scholarships of Rs 20 are awarded on the passing of the matriculation and two scholar-hips of Rs 40 are given to Muhammidans of Sind who hind themselves to study for the B.A. and thereafter become mare tors. In Bengal six junior and eight senior scholar ships as well as others from private funds are so reserved. In the Punjab there are sterral Victoria scholarships for Muhammadans and also other reserved scholarships both public and private. In Eastern Bengal and Assam the number of re-erved scholarships was largely increased Govern ment has now set aside 31 upper primary scholarships 23 middle vernacular scholarships 19 middle English scholarships 24 junior scholarships and 15 senior scholarships for Muhammadans in addition to one post graduate scholarship and five engineering and three law scholarships. District boards have also been persuaded to reserve for Muhammadans a number of primary scholarships. There are besides four junior and three senior scholarships provided from the Mohsin fund. It is also observed in the report on that province that in 1912. Muhammadans secured 294 lower primary scholarships out of 693 and 72 upper primary scholarships out of By way of explanation it may here be stated that of the Mohsin fund (the origin of which is described in paragraph 495) the portion assigned to educational purposes is Rs 46726 a year. This is expended on the govern ment madrassas of the two Bengals (which however are largely maintained from provincial funds) grants to private madrassas scholarships and (prin cically) payment of part fees for Muhammidans The expenditure on these objects however has now risen to Rs 53 381 a year, and the difference is defrayed by the State

(b) Hostels

Gerrayed by the State

G10 There are several reasons why the provision of Muhammadan hostels
at colleges and high schools is of particular importance. In some areas (e.g.
Eastern Bengal) the Muhammadans being mainly agriculturists dwell for
the most part in villages where higher education is not accessible. Their
parents have a wholesome dislike of sending them to town schools unless
they can ensure their supervision. The great importance attached by
Muhammadans to religious exercises and instruction renders popular a place
of residence where facilities for this exist in the shape of a neighbouring
mosque and a superintending maulti. The provincial reports do not treat
very fully of this subject. But several Muhammadan hostels are mentioned
in the Bombai report—at Broach Sukkir etc. The Elliott and Baker
hostels in Calcutta accommodate students of the Calcutta randrassa and
of arts colleges. In Eastern Beneal and Assam spart from the hostels.

intended for madrassa pupils (of which the most noteworth) is the Dufferin hostel at Dacca) special efforts were made to provide Muhammadan hostels at colleges and at government and privately maniged high schools. These are now 82 such hostels in that province. Some are time buildings—the Fuller hostel at Rajshaht the Comilla hostel to which government contributed Rs 44 000 and the Dinajpur hostel to which it contributed Rs 16 000. The Muhammadans showed great enthusiasm in this matter and readily raised funds to supplement the grants offered.

611 The problem of curricula for Muhammadans in common schools is (c) Curriculum to some extent complicated by the language question. This question is fre quently misunderstood Urdu is the recognised lingua franca of the Muham madans of India But it does not follow that it is everywhere the verna cular commonly used by them or even that they have any acquaintance with In the United Provinces the Punjab the North West Frontier Province and some other areas such as parts of Bihar it is a vernacular and is commonly spoken and taught in the schools along with Hindi Gurmukhi Pushtu etc Here the practical difficulty is minimised since Urdu is actually taught in a great mass of the schools Even when it comes into conflict with Hindi the difficulty is lessened by its structural similarity with that language The United Provinces actually had text books prepared the one set in the Persian the other in the Nagri script but (save for a few words) identical in all other respects In the Bengals it is not (save in some of the large towns) a veinacular The Bengal Muhammadan speaks and writes Bengali and, unless he has received some higher education no other language * But he mingles a certain number of Urdu words with the Bengali (retaining ho ever the grammatic forms and structure of Bengali just as Urdu has mainly retained those of Hindi) and the puthes (social and semi religious books which have some vogue in the lower provinces) are often paged from right to left. This mixture of tongues (when carried to excess) has been classed as a separate language-Mussalmani Bengali. But the common vernacular is Bengali and no other the Muhammadan boy is at no disadvan tage in the common schools and all that the Muhammadan wishes is that wo ds of Persian origin when in common use be not consciously excluded from the school books or religious expressions emphasised which may hurt his religious susceptibilities No difficulties are reported in the sub-province of Sind where five suxths of the population speak Sind and 76 per cent are Muhammadans Elsewhere the number of Muhammadans is few and they would naturally adopt (save in special circumstances) the language of the surrounding communities It is just here however that the very paucity of their numbers sometimes induces them to preserve or to revive Urdu as a means of cohesion and self preservation. Thus in the southern parts of Madias Muhammidans whose mother tongue is Tamil are moving in the direction of Urdu there is an agitation in favour of Urdu as a vernacular in districts of Bombay where it is hardly known to the general public and the maintenance of a certain number of special Urdu schools in these two presidencies is evidence of a like tendency

619 This preamble is necessary to show both the existence and the limitations of the linguistic difficulty. Where Muhammadans are numerous either Urdu is a regular verincular and taught in the schools or the Muhammadans themselves speak unother language. Sive therefore in isolated instruces the difficulty arising from the enforced adoption of a language other than the mother tongue as the medium of instruction exists only to a small extent. The trouble rather arises from the desire of the Muhammadian to require some knowledge of Urdu (which carries with it the mark of culture) or even Persian along with a Prakritic or Dravidian veravcular and perhips English.

(a) In primary schools there is probably very little difficulty. Urdu is occasionally added to the prevailing vernocular to meet the wishes of Muhammadans. In Bombay there are Gujarati Urdu and Marathi Urdu standards forming a variant on the ordinary primari courses. One inspector

^{*}Mr Adam asserted that Bengah a the language of the Musaiman as well as of the H n in population, and that Urdu while need by the educated Muhammadans of Rengal and B bar was never emplored in the actions as the med um or nastrument of written instruction (The Call Hat Review Volume H pages 35-5471)

speaks of the additional language as a great handicap and generally unnecessary. In Lastern Bengal and Assam the experiment was tried during the quinquennium of introducing a little Urdu teaching into lower primary schools, with a view, says the report, to "enabling those Muhammadans who do not wish their children to learn English to give their instead some acquantance with a language the knowledge of which is not only a social accomplishment but also the easiest gate to much of their religious literature." Capitation allowances were given for this teaching. The results of the scheme have not been conspicuous save that it probably served to attract a number of Muhammadan pupils to school

(b) Sometimes the Muhammadan experiences real difficulty in secondary schools owing to his ignorance of the vernacular if his own vernacular is Urdu or if he has learned only Urdu. Sir X Bourne remarks that the number of secondary schools in Madras in which Urdu is the medium of instruction is very small and that in other schools Muhammadans are at a disadvantage in the lower classes where a Dravidina language is used. A scheme has been sunctioned in Bengal for providing additional Urdu teachers in the lower classes of high schools where Muhammadans are numerous. But no similar complaints are found in the reports from other provinces.

(c) Sometimes the necessity or desire for a knowledge of Urdu, Persian or Arabic makes it very difficult to frame a time-table which is not overburdened for Muhammadan schools, especially for those that are emerging from indigenous into recognised institutions. The same cause is ant to keep Muhammadans back by reason of the large number of different languages.

they have to study

Another difficulty is that arising from the nature of the text-books when these bear a distinctively Hindu complexion and contain allusions to forms of worship and stories from a mythology of which the Muhammadan parent does not approve. This was a problem that presented itself in somewhat acute form to the text-book committee in Eastern Bengal. Mythological stories, however, can be so treated as to retain only their features of general interest, and the similar introduction of Islamic traditions and topics dissipates the feeling that Muhammadan interests have been overlooked.

IV -Special institutions for Muhammadans

Kinds of special institutions.

(i) Ordinary

(i) Ordinary institutions specially designed for Muhammad ans

Colleges

613 Special institutions for Muhammadans are of three kinds—(i) those which adopt the ordinary secular courses, (ii) those which, having generally started as indigenous schools, adopt a modified version of the prescribed curriculum and thus gain recognition, (iii) those which, whether recognised or not, have a scheme of study peculiar to themselves

614 Muhammadans for the most part attend the colleges and schools open to all classes. But the desire to have some institutions of their own and especially to maintain in them the observance of their religion has led Muhammadans to establish higher institutions, while government or public bodies maintain secondary and primary schools specially for Muhammadans but following the ordinary courses. This does not mean that Hindus are evcluded from these places, the college at Aligarh for instance admits Hindus. Nor does it mean that the curriculum followed is exactly that usual in other schools of a like grade, for Urdus taught as the vernacular and the classical languages are Arabic and Persian.

615 There are three special arts colleges for Muhammadans All of them are privately managed. The first is the Muhammadan Anglo-Oriental College at Aligarh. This institution is too well known to require description It now numbers 610 students. It receives from government an annual grant of Re 14,400 and the services of Dr. Horovitz, a specialist in Arabic. It was proposed during the quinquennium to make it the seat of a Muhammidan university. Some account of this movement has been given in paragraphs 57 and 110. The second is the Islamia College at Lahore, with 180 students. It has been provided with a fine new building. The third, founded just after the close of the quinquennium, is the added Islamia College at Pesti awar. The movement was initiated in 1909 by the leading Muhammadans.

of the province Promises have been made of eight lakis of rupees in subscriptions and much has already been realised. Giuded and fostered by the
efforts of the Chief Commissioner the scheme has advanced a fine site has
been purchased on the Khyber road the foundation stone of the mosque was
laid in 1911 by leading Mullas of whom some 400 were present on the occasion and the school is already erected and at work. The college will contain
arts and Islamic courses and will present a signal indication of the influences
of the pass Pritannica among the border tribes

616 In the Madras presidency there are a number of special Muham Schools midans schools—60 maintained by government 520 by local bodies and 501 aided Four of these are secondary schools of which the Midrassa 1 Azam

second to no school in the presidency for buildings and playground is specially noticeable while the Hurris High School of the Church Missionary Society is particularly well attended The existence of Muhammadan schools in Bombay is indicative of the popularity of Urdu Of over 20 000 Muham madans in primary schools in the Northern division nearly half are reading in Urdu schools yet the Muhammadans of Gujarat speak for the most part only Gujarati In the southern division of that presidency where Muham madans are few the number of Urdu schools has risen from 120 with 5 755 pupils to 206 with 11 893 pupils * In Bengal the place of special primary schools is taken by recognised maktabs In Eastern Bengal the same is the case to some extent but the Muhammadan population is so large that the common schools are often tenanted almost wholly by Muhammadans whose vernacular over practically the whole province is the same as that of the The Anglo Persian departments of the Calcutta Dacca and Chitta gong madrassas are really high schools for Muhammadans And the middle madrassas of Eastern Bengal are little more than middle English schools the Punjab high schools are maintained by the local Anjumans at Lahore Amritsar Ludhiana Hoshiarpur Multan and Rawalpindi and by the Ahmedia sect at Qadian The Anglo Arabic High School at Delhi was placed on a new footing with the help of grant in 1908 and is now an excel lent institution notwithstanding the enhancement of fee rates its pupils have increased from 310 to 880 Burma reports the existence of certain Muham There are Anjuman high schools at Nagpur and Jubbulpore madan schools in the Central Provinces

617 Special efforts are made to educate particularly backward sections Backward of the Muhammadan community. The Mappillas of the west coast of Mad classes ras are making good progress and the number at school has risen by 40 per cent. Education is also increasing among the Muhammadan inhabitants of the Laccadive Islands.

618 The material out of which the second class of institutions has sprung (ii) Indigenous

1 the Koran school-a useful institution from the purely religious point sclools with a of view but often worse than useless from the educational since it seems to secular course mask ignorance and the pancity of those who are undergoing even the most elementary instruction The conversion of such indigenous institutions into useful schools has always been the policy in India. In recent years the process has been accelerated The reform of the mulla schools of Sind which began ten years ago was described in Mr Orange's review Those schools which would not adopt a simple secular curriculum in the vernacular were deprived of recognition Those that did so (after ministering to the spiritual has now been generally adopted in Aden also

The system was a success. It has now been generally adopted in Aden also

During the last eight years similar efforts have been made with maktabs in Bengal Part of the scheme of 1904 for improving Muhammadan education in that province was the pro vision of government model maltabs
been proposed to add fourteen others

Seven were established and it has now
The conversion of indigenous maltabs into primary schools of a modified type has steadily continued since 1904 syllabus of studies and a teachers manual were published in 1911 is given to a recognised maktab equivalent for the first year class to half that given in a lower primary school in the second class to the full grant and in the third and fourth classes on a scale 25 and 50 per cent higher respectively

^{*}Fl ewhere the number of Urdu schools a this d vis on is reported as I aving r sen from 157 to 043

at Rumpore Boalia (Rajshuhi) in Eastern Bengal These have no Anglo Persiun departments being in each case attached to an arts college with a high school on the premises The number of their pupils is 205 and their unnual cost Rs 16 184

621 The organisation and utility of the Bengal madrassas have come Reform of under discussion during the quinquennium It was felt that the type of edu Madrassas in cation given in the Arabic departments was not the best suited for the exi the Benonis gencies of modern life nor so conducted as to facilitate a rapid and intelli gent grusp even of the recondite subjects which they profess to impart Among the comprehensive schemes of Muhammadan education formulated during the period in the two Bengals the reform of madrassa education has assumed a position of importance A conference for Bengal was summoned at the close of 1907 It recommended a scheme of reorganisation which rused the course from eight to eleven years including six junior or school classes and five senior or college classes. The lower and higher standards of the madrassa examinations are to be passed at the close of the third and fifth vors of the college course Further additional title courses of three years were created each leading to a specialised examination in theology literature law or logic on the result of which titles are bestowed. Persian was made optional above the third year in the junior standard English is an optional subject and was taken by 144 pupils of the Calcutta Madrassa in 1912 was proposed to add to the college course for those who had studied English as a portion of it a two years course of English instruction with a view to making it possible for students of the Arabic departments to acquire a know ledge of that language approximately equal to that possessed by an ordinary graduate But the clases have not yet been opened New appointments have been created in the two government madrassas to carry out the scheme of reform while attempts have been made similarly to improve privately managed madrassas the grants to which were raised from Rs 960 to Rs 9 480 a year This reorganisation did not prove altogether acceptable to the Muhammadans of Eastern Bengal and Assam The full senior madrassa in this province consists of ten classes six constituting the junior or school and four the senior or college department. English optional in the senior de partment is usually (says the report) compulsory in the junior The reforms of the Calcutta committee did not seem to go far enough. The compulsory prescription of English throughout was demanded also the re-modelling of the whole course on more modern and rational lines A committee consist ing mainly of Muhammadans was accordingly summoned which proposed a reorganisation of the madrassas and made other recommendations covering the whole field of education from the maktab to post madrassa courses

029 A special development in Eastern Bengal has been the establishment Middle of middle modrasses. The scheme initiated by Sir Bamfylde Fuller in 1905 madrassas was intended to offer an opportunity of education in mainly Muhammadan areas and in object lesson in the combination of modern secondary with uncient classical instruction. Each was organised with an Arabic department and with a middle English school. In the conservative division of Chittagong these schools have proved a failure. In the Dacca and Rajshahi divisions they have proved a marked success numbering 41 with 6 000 pupils. They are maintained at a cost of Rs 57 000 and so popular have they proved that public funds are required to meet but a small portion of this sum. The not unnitural tendency is for them to develop into pure middle English schools teaching Urdu and Persian. A certain number have dropped the Arabic department intogether and elsewhere the two departments are separately conducted. They have brought English education within the reach of communities to whom it was not available and the very name of madrassa has proved a talisman in overcoming the prejudice against such instruction. In this way, they have a least infilled hif their intention.

I - Miscellaneous measures

623 There are a few points which pertain strictly to nother of the two foregoing sections or which are of general application. These are the questions of \$\tilde{\Omega}(\text{harmadan} \text{ terchers} \text{ unit their training and of inspection}\$

Want of teachers 624 In some provinces the paucity of Muhammadans in the public ser including the solid solid stretched attention. This backwardness in employment often figures in the resolutions passed at their conferences. The cause is the lack of qualified Muhammadans. Sir A. Bourne hints that there is another side to the question. It is also both a cause and consequence of indifference to higher education that well to do Muhammadans are so commonly in business and perhaps this indicates a prealine of commonence. If it is difficult to obtain qualified candidates generally it is doubly so in the case of educational posts where prospects are not alluring. Owing to the demand for them in other and more lucrative forms of emploiment. Muhammadans will not readily undergo training and it is sometimes difficult to keep even the trained man to the profession for which he has been prepared.

Employment in educational posts

625 The following facts regarding the educational employment of Mu hammadans have been gleaned from the reports. The Bombay report bewarls the lack of Muhammadan teachers but adds that in the northern division two deputy inspectors out of six and six assistant deputy inspectors out of 25 are Muhammadans Of the total of 470 inspecting officers in Bengal 105 are Muhammadans while there are also 135 Muhammadan teachers in govern ment colleges madrassas secondary and special schools who with 17 clerks make a total of 257 in the department of pullic instruction. In the Unite I Provinces out of 132 sub deputy inspectors only 21 are Muhammadans But in vernicular schools the teachers of this community number 1886 against 10 015 Hindu teaclers and in English schools 216 against 659-creditable figures when it is remembered that only 14 I per cent of population of that province is Muhammadan In Fastern Bengal and Assam out of 216 inspect ing officers 114 are Muhammadans and they form in the Fastern Bengal divisions from 43 to 44 per cent of the staff. The number of Muhammadan teachers in institutions of all kinds in that province has risen from 9 654 to 14 6a6

Training faci¹ities

626 Madras has four special schools for training Muhammadans two for masters and two for mistresses. A central training class was started in Broach (Bombay) and it has been decided to establish a purely Urdu training class in the northern division where Guiarati will be taught for only one period a day in other training colleges also efforts have been made to encourage Muhammadans Under the Bengal scheme of 1908 at was proposed to convert seventeen guru training schools into mianii training schools for the production of Muliammadan primary teachers (manges) the three instructors in each being on special pay of Rs 30 Rs 20 and Rs 15 Ten such schools have actually been opened. A normal school at Aligarh under a Muham madan headmaster is expected to attract better teachers of that community In Eastern Bengal the number of Muhammadan teachers is very large Pro vision is made for them in the guru training schools separate hostels for Hindus and Muhammadans having been attached to many of these institu In the Central Provinces a special Urdu normal school was established during the quinquennium at Amraoti (Berar) and an Urdu class was also opened in the new normal school at Khandwa

Special inspectors

627 In Bengal there are three special assistant inspectors of Muham madan education whose work is to visit Muhammadan schools throughout the circle and to keep the inspector informed of requirements In other divisions there are special Muhammadan deputy inspectors Seven inspecting mauleis had been appointed in 1904 At the end of the quinquennium funds were provided for increasing their pay and creating nine additional posts areas where Muhammadans are either very numerous or very scarce the need for special inspectors (apart from those members of the ordinary staff who are Muhammadans) is less marked But a beginning was made in Lastern Bengal during the quinquennium of appointing Muhammadan sub inspectors of special qualifications in areas where that community is most numerous with a view to their introducing greater efficiency into madrassas maktabs and other institutions where Arabic Persian and Urdu are taught Burma has a special deputy inspector for Muhummadan schools in Akyab and another has been sanctioned for Arakan

CHAPTER XVII

THE EDUCATION OF BACKWARD CLASSES

I -General

625 It is a commonplace to say that India presents a greater diversity The races of of races than does Europe Successive waves of conquest have broken over India the continent Throughout the peninsula is found the Dravidian stock, on which have been superimposed, more or less strongly the characteristics of surrounding or invading nations The Aryans have driven a wedge from the north, through Kashmir, the Punjab and Rajputana, their physical type is mixed with the Dravidian in the United Provinces, their language forms a component of the vernaculars as far south as Goa on the west coast and Puri on the east Invaders (perhaps alpine) have tinged the race type along the west coast from Sind through the Mahratta country nearly to Travancore the Mongoloid type has permeated through Bengal Beyond the penin sula are other races—Turko Iranian in Baluchistan and the North West Frontier Province, Mongoloid in Nepal Assam and Burma Com bined with differing racial and linguistic characteristics there is the system It is natural that in such an agglomeration there should be found communities that require exceptional measures-aboriginals, 'fragments of forgotten peoples,' classes whose social status or language isolates them from a common system, or wild border tribes hardly touched by civilising influences These races or castes require special treatment, and it has been the policy of government to accord it

629 The classes dealt with in the present chapter are necessarily ill Classification defined and merge more or less in the surrounding population Generally speaking, they may be summarised as falling under three categories—(i) abori ginals and hill and forest tribes (ii) depressed classes, (iii) communities who, though not necessarily either backward or depressed, present problems of education different from the ordinary

II -A borramals

630 In the last two quinquennial reviews the number of animists was Aboriginal taken as a rough (but admittedly imperfect) indication of the number of groups The figures for these at the time of the 1901 census was about 81 millions The answering figure in 1911 was about 101 millions of which 71 millions were in British provinces as against nearly 6 millions in 1901 (I rom a consideration of the race figures given in the census, 18 millions appear to be about the number of aboriginals to day) But it may be admit ted at once that these figures are not a safe guide to the number of aboriginals as treated in this chapter There is a tendency to become hinduised among many of those who are in contact with Hindu communities, and the efforts of Christian missionaries have not been without fruit in some of the hill tracts Special measures are necessary for only a fraction of the full num ber The aboriginals are in two main groups (a) From west to east there stretches across India a bind of rugged and forest clad country Two No huanches run eastwards from Rajputana and Bomba, the Aravallis and the Vindhya range to the north, the Satpura and Mahadeo hills of the Central Provinces to the south In the wild and broken country about the sources of the Nerbudda and the Sone, these highlands mingle in the Maikal range and run on to the bluff of Parasnath and where the Rajmahal hills overlook the Ganges just north of the apex of its delta Here dwell some of the most primitive tribes of the Dravidian race—the oldest race in India as Sir Her bert Risley has called it To the vest—in Bombay and Rajputana are found the various classes of Kolis and the hunting Bhils whose original home is between Mount Ahu and the bill fortress of Assignith The Korkus speak.

632 If it is difficult to calculate the numbers comprised in aboriginal Numbers under and hill tribes an accurate total of those under instruction is even more in instruction possible. The last census shows that among numbers 5 per mille were interacted some of the reports speak of the almost total illiteracy among the peoples thus classed. In Madras there are only two literates per mille. In Bombay we are told that there are practically no literates at all. In Burma (where 59 miles and 2 females per mille are classed as literate) the figure of hieracy is enhanced by the inclusion of the Chinese population and would almost vanish if these were excluded. The Burma census report observes that as members of animist tribes become educated they are absorbed either into the Buddhist or the Christian communities their only avenues to literacy being through the momentate or the mission schools. Doubtless a similar process occurs in other provinces too by which the animist when he becomes educated

also passes into another class of religion 633 From the educational reports it is found that the members of abort ginal and hill tribes now under education number 159 244 as against 112 643* in 1907 The meagreness of the figures of those under instruction need be no matter of wonder to those who know the conditions of life among these races Those that live in the plains are often wandering tribes Those of the hills are confined of necessity or of choice to places which lie far from the beaten track forest clad savage and malarious. It is difficult to educate the aboriginal to become a teacher A teacher of a more civilised community sent from the plains to undertake work among the hill tribes is likely to meet with a cool reception nor is a monotonous and nasty life passed in a feverish climate in places infested by carnivora reptiles and the imagined terrors with which such spots are clothed likely to keep him contented at his post Another difficulty is that of language. The aboriginal languages have no script of their own and it is not always easy to acquire a knowledge of them Among the Dravidian tribes some of the languages have died out Among the Mongoloid tribes the languages are living and are often very difficult with numerous and widely varying dialects

634 The Dravidian group stretching in a line from the west coast to the In the Line cast coast and the Ganges shows 92 707 pupils at school. Of these however main groups no less than 53 036 are in Bengal among the Oraons and the Minda speaking tribes who in their susceptibility to education and other influences differ from the tribes in Bombay the Central Provinces Chota Nagpur and the northern portion of Madras. The Dravidian races on the whole form the remnants of early inhabitants driven back to sterile hills. Some of them are rapidly losing their languages and those who have not already lost them are sometimes bilingual. In Bombay and the Central Provinces it is very possible that progress is masked by reason of the passage of aboriginals into the rank of Hindians.

635 Among the Mongoloul tribes of Eastern Bengal and Assam and of Burnn conditions are somewhat different Generally speaking these tribes mark the result of invasions which if not comparatively modern have at least taken place within historic times and in Burnat they are not fully distinguished from some quite recent immigrants. They are not generally back ward going is are the bulk of the Dravidium tribes. They retain their languages an added difficulty in the task of their mixtruction. Many of them are intelligent and clever with their hands. The Naga hills present a model of irrigated cultivation. The Khasis have made great strides in moral and matterial well being since the Welsh Calvinistic Mission entered these hills and among other benefits introduced the cultivation of the potic. The num ber under education appears to be 66 537 though in Burma not all of those thus classed can truly be regarded as aboriginals.

636 The tribes of the former group may be considered in their geogra (a) The Dravi phical order from west to east Bombay the Central Provinces the southern d an group off shoot in Madras and Bengal

Tle aboriginals in Bombay are Bhils Kol's Talavias Dharalas Katkaris and the Kal paraj tribe Tle total number at school is 18 40 Mr Godbole reports of the

The figure is taken from the present reports Mr Orange calculated 121 961 aboriginal pup is n When class first on its so uncertain some discrepancy is to be expected.

Bhils of a certain area in the Central division, that they " are happily placed in life and are owners of land and they look with disfavour upon the idea of their sons becoming are owners of and and may good with distance upon the case of their absolution members of the teaching profession, which, besides being ill paid weams the boys from their homes and landel estates." Nevertheless, the system of hoteles and of special relities for training as feachers appear to have been successful. These will presently to described. The only aboriginal tribe mentioned in the United Provinces reject to that of the Tharus in the Humilayan Tera. A middle sel ool has been started for them. and special arrangements were made for the training at a normal school of two youths to become teachers. The special measures adopted in the Central Provinces are not But Gonds and other aboriginals at school lave increased from 6 of to Among the aboriginals of Wadras are the Ahonds (including the less uncivilised Jatapus and Kondoras) the Savaras, Panos and hoyas These are mostly found in the northern districts of Ganjam, Vizigapatam and Godavari. In the Ganjam agency tracts both schools and pupils have fallen owing to the closure of aided schools and of the lol existing institutions & are maintained by government. Most of these are specially for aboriginals. In other parts of the presidency there are a few schools for themelous Lambadis Pulsavars. Todas etc. The total number of aboriginals under instruction is reported as 5640. The inspector of the northern districts remarks on the difficulty of ol taining teachers for hoya schools and suggests that, for instruction in arithmetic and reading the hoya larguage (reduced to writing by the Rev J Cam) should be used and should be learned by the teachers. Telgus being used only ratched purposes. The principal work for the education of the aboriginals in Lorgical Company of the control of the c hes in the Santal Pergunnahs at Ranchi, in Singhl hum and among the Khonds of Orissa. There are many others—the Mundas and Hos of Cheta Vagpur, the Dravilian Oraons Paharias Kandhs and Gonds, and ite Tileto-Borman Lepchas and Bhutias (f the Himalaya The animistic populstion is returned at over thorty-one lakes Of these 47 per mille of the males and 0 31 cf the femiles are atturned as intersite. This seems little enough. But il ere are 53 036 pupils under instruction, examination results are creditable and it is possible to appoint members of these races as inspecting officers The number of Khonds at school has quadrupled during the period, though attendance is very poor

(b) The Mon goloid group 637 The Mongoloid group is found along the foot hills of the Himalaya, in Burma (though for reasons explained, it is difficult to class the hill people of Burma as aboriginals) and in 'Issam'. It is in the last named area and a portion of Chittagong that a particularly interesting collection of rices is found. Here the tumbled mass of hills that run south from the Patko along the Burma border contain the Khamits the Nagas the Manipuris the Lushais the Kukis the Tiparas, the Chakimas and the Mag'is. From this a branch range runs west between the Surma Villey on the south and the Brahmaputra on the north till it abuts on that river's southward bend, here live the Kacharis, the Januts the Khasis and the Gares.

Among the mass of hill tribes in .lizam (with their ramifications into fastern Bengal) missionaries have generally been the poncers of education. In the Luthin Khasi and Jaintia hills almost all schools are managed by missions. In the Chitigong hill tracts they are managed by government. In the Garo and Naga hills they are maintained by both agencies. The system has generally been adopted of tump grants to the missions who are permitted to do their best with them, though gradually a cer tain amount of control has been introduced through insistence on capitation—allowances for pupils in various classes with a view to raining the standard of instruction. The grant to missions is over its 18 000 a year. Such control as exists is exercised through inspecting officers of the hill arcse supervised by Europeans, but, where schools are few and far between the missionaires themselves are made honorary inspectors under the general supervision of the civil officers? The progress of education has been also but steady. That the expansion has not been more rapid, says the report, is due not to any lack of efforts but to the familiarity of the progress of education has been also but its efforts to the one of the province and enders the adoption of a uniform educational policy will not of the province and enders the adoption of a uniform educational policy will are also the survive of these schools was made in 1990 II out the tunpervive raids execute freesy on the hill languages greater regularity of inspection, greater attention to the education of guilo and the desirability of restraning literary teachenies and checking the divorce of

The Welsh Calrunstic Mission is the main educating arrays in the Khasi and Januta hills. There are five middle schools 428 primary echolos settle Stippuls at training school an industrial school and a high school (in the last however, the Benglist element prevails). In the Garo hills the American Baptist Mission maintent Mission simple school and 110 primary echools and government maintinus a training school and 40 elementary echools. The grants made by government to these mission amounted in 1912 to Rs 3 176 and Rs 2 750. The organisation in the Naga hills is different Heres the schools are mainly government schools shough a few are maintained by the

American Bajtist Mission There has been a set lack to education during the quin The curriculum was overloaded with English and Assumese as well as The demand for Unglish speaking Nagas is very small And the Naga being of a practical turn of mind did not appreciate education which was of no apparent use In industrial school on the other hand opened at Kohima has flourished In the I ushri hills also the major part of the education is conducted by the missions (the Welsh Predicterian and the Phylish Hapitst) working in cooperation with the superintendent of the hills. Here however, the satem pursued is different from that already described. The work is concentrated at the leadquarters of the two missions-Aijal and Fort I ungleh Here the purils are under the constant supervision of the missioneries and hostels are provided. The sons of the chiefs in especial are educated The scheme is successful Some of the Jupils have been sent on with scholarships to the high school at Shillong. The elementary schools in the villages I are not farel so well Though their number has risen from 16 to 29 and though in the Aijal sub division opposition is giving way there seems to I e no demand for education-rather the opposite. In these hills the missions now spend Rs 2 078 annually while govern ment aids them with an annual grant of Rs 3 370. There are four schools in the North Cabane hills. Too diffees were in 182 and the name of the lard lift have now leen that death of the lard lift have now leen thanded over the Welsh Cabinistic Mission. It is understood that some illustral training is given in the central sel col at Hallong. The schools for Kacharia maintained by missionaries in Darrang are said not to be progressing. In the Mikir hills (a detached range just to the south of the Brahmaputra) missionaries maintain twelve selools with the help of grant, and the local board of Nowgong maintains sixteen schools

In I otten Rengal the chief centre of hill races is in the Chittagong hill tracts where the Vinkin Yoma trends southward from Luchai. Here here Maghs Chakmas and Tiparas. The educational institutions are mainly mustured by government A high sel ool is where established for them at Rancausti, the headquarters of the district. Here 19 ill box are educited generally free of charge and loused in a hostel where many of them receive free board and ledging. The cost to government as neurity R. 7000 a vera. Two Fuglish middle schools have disappeared. But a recructable middle schools have disappeared. But a remarked in the self-oil is maintimed, and this also possesses a hostel where some of contraction of the self-oil is maintimed, and this also possesses a hostel where some of costs bring delived by government. The charges are made for education, the whole government spends over Re 11 000 a vera. The Garo hills shut on the plant of Mymen singl. Some very lackward tries his at the foot of the 110s. The Runnin Garo Australian Mission maintains an Taglish middle school with 46 a longinal pupils and there is an indifferent design with 37. The district board maintains selven primary schools (seven started during the quinquennum) and the mission has some 28 primary schools for the figures of attendance are poor.

The Talaings of *Burma* though they have increased in numbers show a marked falling-off in special schools. This is probably due to their buring resorted to ordinary schools. Over 50 000 uppls of hill tribes are shown at school but they can hardly be described as a loriginal's.

633 Among hill races might be classed the border tribes of the North Pathan races
West Frontier Province As, however, the system applied to them is fairly excluded
uniform with that prevailing in the province as a whole they are treated of
in the chapter on general education

III -Depressed classes

639 Depressed classes are to be found all over India There are un Figures touchable castes, whose children, if permitted to attend the common schols may sit only in the verandah and gather a few crumbs of knowledge There are classes who are socially or vectorionally distinguished and despised There are criminal tribes Often these classes are really aboriginal in the sense that they are people found on the land by subsequent invaders and reduced to the condition of hewers of wood and drawers of water They have runained on the plains and become a part of the social organism. They have runained on the plains and become a part of the social organism is the abort ginals previously described have retained their enaluteristics and their independence sometimes at the risk of a precarious livelihood, by beating a retreat into the mountain fastnesses. The number at school appears to have increased from 170 367 to 217 620 far the largest number being in Madras and the next largest in Bengal. The figure however is doubtless much under estimated since many children reading in ordinary schools are not thus classed and as returns are supplied only by a few provinces. These reasons and the census figures of literacy prove the calculation to be valueless.

G10 In Madr is the large community of Punchamas fall under this category include the Tanul Paraivans tile Telugu Malas the Canarese Holeyas and others They Provinces

are educated both in the ordinary and in special institutions, the latter including two training schools, 439 heard schools and a number of mission schools. The amount aspended on their special education has riven from Rs. 4 M.217 to Rs. 6 07,770 To the latter num public funds entiribute Rs. 2 0.702 and practs sources Rs. 3,27,711, the lalance leiing paid as fees. If it is still the case, "says Six A. Bourne, "that Hindus in general tale little interest in these people and practically all that has been or is leing done to elevate them is the work of misionary bodies among whom, in this connection, the Theosophical Society may not impreperly be included, and directly through local loards and indirectly by nears of grants in aid by government." As was anticipated, the number of special schools classed as secondary has fallen, while was anticipated. The manufacture of elementary schools are specially among those which are mainfained by missions with the help of graits. The number of pupils in special schools has risen from 85 270 to close on 100 (20). The increase of Panchamas in all classes of institutions special and otherwise, has risen by nearly 30 per cent. But the increase is desired by the return of payie, and recent in nevity of per cent. But the increase is desired by the return of payie under the decominations. The measures taken in Himbay for the education of the depressed classes are similar to those for the alongiants. A main difficulty is the previous of teachers. The failure of amost of the schools is commonly attributed to the want of sympaths of the teachers towards backward recommonly attributed to the want of sympaths of the teachers towards. tion made by the depressed classes during the last five years in the face of difficulties like poverty custe prejudices etc., clearly slows that they are gradually beginning to appreciate the efforts of the department and the various Christian insessors in the direction of educating them and thus lifting it must morally and security. The facilities afforded by the department in the shape of schedulings prizes etc, have been chieff insymmental in creating a taste for education among the dip revolutions. The scholars of the degreesed classes have succeeded in passing the vernacular final examination and subsequently gaining admission into the Training Chilege. Some of the low caste schools have now thus secured trained least-set texters." In the same director members of degreesed communities have received university education (against none in the preceding period), and in the northern dissions fifteen are in secondary schools. The Degreesed Class Mission is doing good work under the presidency of Sir Narawan Ran Cl indivariant. It is replied that in buttral education is in some cases of greater importance to these easter than literary. Attention is also gail to the criminal tribes some of whom like the Dharalas are classed as aboriginals. In Bijspur district the children of criminal tribes are admitted to the ordinart selecte and are given stipends chilling of criminal trales are admitted to the optimary set of a nat are given superast. In Inharwar there is a special school for them and no pains are spared to induce the chilling to attend feet leng remitted, scholarshing given and books slates and articles of clothing supplied free. Bengal returns 73,761 of the dispersed castes as under instruction but the classification is uncertain, and figures are mentioned for other castes and rares who might be so classed. The nost tocklike work is about among the Pans in Angul and the Orisia tributary states. Special schools have been ericled and a slow increase is of scrable. In the Delbi division of the Panjab there are 27 low-caste schools mainly for Chamitre. Twenty there of these are conducted by mission. aries Government gives special grants for the criminal tril c of Minas There are a few schools in other divisions I ut the whole number seems to be very small. The Oxford The Oxford and other missions are doing excellent work among the Namasudras of Backergunj I and other districts of Fastern Bengal But these operations are not described in the report. In the Central Provinces the number of low-caste children at school has risen from about 15 331 to 16 231 and the number of them in secondary schools has doubled

IV -Isolated communities

I solated com munities in Burma and elsewhere

641 The third class (isolated or peculiar communities not necessarily backward or depressed) contains groups of people who differ in origin and habit from the bulk of the surrounding population. It is in Burma that communities of this class are mainly found. Here special measures have been taken in the Shan States In the northern States the American Baptist Mission maintains an anglo-vernacular school at Hispaw Apart from this, and two government schools already existing, all lay schools were taken over Teachers' says the inspector, ' receive fixed by the state in 1911 12 salaries plus a bonus for specially good work and the cost of school equip ment and buildings is now met from state funds. Result grants are paid into the Saubwa's treasury and he is regarded as the superintendent of all schools in his State Government continues to give half salary grants to budget provision This system is at present somewhat expensive, as all teachers are imported from Burma and require higher salaries than they would be willing to work for in their own country The cost to government per pupil during the past year has been a little over Rs 5 and the cost to the State about the same if non recurring charges which have been paid from state funds be evoluded When Shans replace the Burmese teachers which ficant incident regarding scholarships is reported from Madras Twenty five special scholarships (as well as the free supply of books and slates) were sanctioned for Koyas in a certain taluk But the government Agent pointed out that all Koyas are alike poor and being unable to understand the prin ciples of selection for scholarships would view any such distinction with jealousy and dissatisfaction and would probably withdraw the children to whom scholarships were not awarded Accordingly scholarships were sance tioned for all koya pupils in the agency and while the number was thus rused to 227 the amounts were halved Presents are also given and in special schools children are sometimes boarded and fed free. This is es pecially the case in Bombay An example is afforded at the special schools for katkaris in the Southern division where each pupil receives a measure of rice on every day of attendance Elsewhere small monthly rewards are given for attendance and articles of clothing etc are distributed

In Bengal aboriginal children read free or if in high schools pay half In Eastern Bengal and Assam the majority of schools are free and in the hostels free lodging and boarding are given to many pupils

644 A system of special hostels for aboriginals and depressed classes A particularly successful school is that at Godsamba in obtains in Bombay the northern division which has proved useful in producing teachers of the Kaliparaj community another for Bhils is situated at Dohad combined with training classes and will be described below. A number of other hostels or boarding schools are mentioned where the boys obtain free The Scandinavian Mission maintains a boarding school board and lodging for girls in the Santal Pergunnahs and proposes to establish a set of cottage homes where the girls will live under the care of a Santali matron in a style approximating to the conditions of their village life with a central school The hostel system as already stated plays an important part in the Lushai and Chittagong hills There are no doubt advantages in attracting children away from their surroundings where it is difficult to maintain a school in anything like efficiency to central places where supervision is pos-But the method while it appears to be successful must necessarily be of limited application

645 Industrial schools have been established at Shillong and Kohima for (c) Industrial the Khasis and Nagas of Assam and are doing good work. Something has also been done at Haflong The report remarks that the establishment of industrial schools at other centres is desirable and quotes the following from a wellknown authority in the Lushai hills - I would hope that our educa tion (of the Lushais) may not unfit them for their after life which after all is village life and agriculture. If technical education can be made to go hand in hand with schooling so much the better I have been for many years here and know the Lushais as they were in their hills when we annexed them and should be sorry to think that one result of our educating these people might be what it has been elsewhere to give them a distaste for their ordinary occupations In other provinces too we hear of attempts to teach improved methods of weaving to hill tribes Such was the first intention of the weav ing station at Cambalpur in Bengal A Gond who was trained at Sambalpur and afterwards at the weaving school at Serampur is now employed in a hand loom factory at Hooghly and the news of the lucrative pay he is receiv ing is said to have inspired many other Gonds to follow his example the Saran district of Bengal there are three industrial schools for members of the low caste of Doms where they are taught bashet weaving and bamboo

Ranchi has a school for Mundas and Orions and cane work 646 The advantages are obvious of providing teachers from among the hill peoples themselves. In Madras mention has been made of four training schools for Panchamas The Dharwar Training College in Bombay has attracted a handful of such pupils-Mahars Konchi Karwars The hostels for aboriginals in Bombay send their pupils and Haran Shikaris to training schools. A special training class was opened at Mokhada for back ward communities in the northern division of that presidency and stipends were given to pupils but the teachers produced do not seem to have been a success On the other hand the Godsamba boarding school for the Kalipara tribe sent six pupils through the training college and also itself produced 31

(b) Hostels

scl ools

(d) Training

teachers who are said to be doing good work. Another successful institution is that for aborigants at Dehad in it exime drivision. Her, twenty three Bhils are lodged boarded and taught in a building erected by the board at a cost of Rs. 15 000. They are trained by a teacher on Rs. 50 to Rs. 00. The teachers turned out command respect by rei on of their next and orderly appearance and their regular and temperate life. The school for Kolis Bhils etc at Diva in the Breach district also has continuation class which has turned out 21 boys of whom 14 are now teachers while four hate gone on to the Ahmedahad Training College. In Bengal two arru training schools are reserved for Yundas and Oraons. The missions too have their training theolos. There are special schools for training, tachers of hill tribes at Jaiau (Shillon_{p.}) and Turn in Assum. It is difficult to induce tea cheers to attend and the schools attained and only a qualified success.

647 When the language of a tribe is falling fast into desuctude (as (e) Books in among the Gonds) the difficulty of reducing it to script and compiling books hill languages for school use does not arise. Elsewhere this work has been accomplished to a certain extent—munh) by mission effort. A Savara dictionary a grammar and reading books have been printed by the Madras government press. In Bengal a Nundari version of one of the Hindi readers has already been made and it has now been arranged to translate the lower primary reading and arithmetic books into Ho and Mundari. Santali and Tibetan are also recognised as media of instruction. Money has been illotted for the translation of text books into Khond. But all instruction above the lower primary is given in Hindi. Excellent work has been done in Assam by missionaries who have reduced the tribal dialects to the Roman script and written texts—for which government sometimes gives rewards. But it is not generally sufficient merely to teach the hill language. In the higher classes the common language of the locality must also be unparted for purposes of communication.

and commerce with the neighbouring population

made honorary inspectors

649 In some provinces a special inspecting agency exists—drawn when (i) Special in possible from the tribes themselves. In the Chhota Nagpur division of Ben specting gal there is a Ho sub inspector and there are Ho Munda Oraon and Santial agencies inspecting pandits or assistant sub-inspectors. These work among schools specially intended for the race to which they belong. The Santial Per gunnahs have a special inspecting agency of Santials—three sub inspectors and three subordinates. The sub inspector of the Daryeling hills is a Lepcha—the first of his race to matriculate. In Assam Khasis are utilised as inspecting officers in the Khasi hills. Sometimes the missionaries are

649 On a very rough computation it may be hazarded that there exist of Gereral the three classes named above (aboriginals in the limited sense depressed clas figures ses and isolated communities) respectively six millions 423 millions and 41 millions Of the first class about 159 000 (or 26 per cent) appear to be at school the figures supplied for the second class are insufficient to permit any conclusion to be formed Of the third no calculation can be made literates in these classes may be put down as about 26 700 1 177 700 and 274 000 or 0 4 2 8 and 6 4 per cent In these circumstances it is no wonder that we find the resolution on the Punjab report describing the education of the lower castes as a field of almost virgin soil and quoting figures for certain illiterate classes among which are criminal tribes numbering over 67 000 persons with 200 literates The problem is one in which the educational officer is peculiarly powerless. The inspector ranging over a large circle can give little time to inaccessible or unachooled areas nor is occasional attention of much avail. The personal influence which residence among those classes alone can secure is a necessary condition to their progress. The missions and the administrative off cers to whom backward tracts are entrust ed who learn the languages and customs of these people are in a position to win their confidence and by slow and patient methods to improve their lot The best results are attrained where we find these two classes of pioneers work ing together Numerically the result may seem absurdly small. When due weight is given to the conditions of jungle life social prejudice and the savage existence from which some of these tribes are but now emerging that

which has been done appears in a truer perspective. At Khonoma where the political officer was murdiced in 1879 there stands a village school on the virt set of a blood that by struggle between Nagas and British troops. An Lu, i.b. school flourishes at Imphil where in 1891, the Chief Commissioner Assum and his following were treacherously done to death. Some of the depresed cristes too are now making rapid progress. The Pirity as of Madris have now nearly three times the proportion of literates that they had ten years ago.

CHAPIER ZVIII

EDUCATION OF DEFECTIVES

650 In the last review Mr Orange reported that there were fifteen spc General cial schools for defectives in India situated in five provinces and that the description number of pupils did not exceed 400, a figure which was disproportionate to the numbers of the defective children scattered throughout the continent The present reports show that the schools are still confined to five provinces The total number of schools, however, has increased to eighteen ber of pupils in schools in the Madras presidency and in the Punjab is not mentioned, but those of the schools in other provinces total 430 The general type of school, whether for the blind or for deaf mutes, is a vernacular school, sometimes with the addition of English, and general industrial instruction of a suitable nature It is also noticeable that in two institutions the pupils seceive, or are encouraged to seceive, training to enable them to assist those similarly afflicted As regards the paucity of schools, the social and educa tional conditions of India are not yet such as to have made the instruction of those who are by nature unfitted for employment appear obvious as a neces sury duty of the community The blind, the halt and the maimed are objects of natural charity in India, and the majority (though not all) of the institu tions which have been established are the work of mission bodies from Europe or America

651 The schools in Madras presidency are all at Palamoottah save one Schools in They have been reduced from five to four by the amalgamation of the mixed different school for the blind at Pannarilai with the Palamoottah schools for (i) boys provinces and (ii) grils. These two schools continue to be muniged by the principal of the Sarah Tucker College and have made steady progress in strength and efficiency. They give a general education with text books made on Dr. Moon's system, and also contain industrial classes for boys in mix waving, chair caning, basket and rope making. Ex pupils are sometimes trained and employed as teachers. There is also (iii) a school in Madras munaged by the Christian Association for the education of the South Indian blind, which uses the Braille system. (iv) The only deaf mute school is at Palamoottah and draws pupils, not only locally, but also from Calcutta, Orissa and Colombo. It is aided by Government and by the boards that send pupils to it, provides general and industrial education and is now under a fully train editeacher from England.

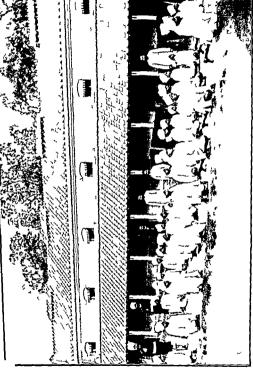
The Bombay report shows eight such schools in the presidency with 168 pupils, against five schools in 1907. They are (t) Miss Millard's School for the blind in Bombay, which is doing particularly good work and lais an industrial department, (ii) the Vectoria Memorial School for the blind, also at Bombay, where tuloring, tape weaving, cane and hamboo work are taught and special attention is paid to vocal and instrumental music (iii) the American Mission anglo vernacular school for the blind at Sirur (iii) the American Mission anglo vernacular school for the blind at Sirur (iii) the Zenari Mission added school for the blind at Porona, and (i) a very smill aided chool munitimed by the Iiish Presbyterian Mission at Prantij The Braille system of instruction is used There are also (ii) the school for deaf mute, at Bombiy, mentioned in Mr. Orange's isveiew (iii) an aided school for the same at Almedabad, and (iii) a new school at Bombiy cilled Professor Dates School for the derf and dumb

Inclusive of the leper asylum at Purulur Bengod has four schools, with a tol 219 pupils (i) The Lateya Bland School at Calcutta founded by a Bengult Christian, teaches pupils to read by merus of Braille type and to write by means of holes bored in thick paper cane work and chair making are also taught. It is aided by government and municipal funds (ii) A second school for the bland is at Ranchi and is managed by the Scorety for the Propagation of the Gospel, whicher work, nivear we'ving and mat making are

taught. A few blind girls are also being instructed at other mission schools (iii) The Calcutta Deaf and Dumb School teaches deaf mute to understand words by hip observation and to communicate ideas by articulate sounds. There is a boarding house then, is also a normal class with stipends attached for training teachers of deri mutes. Government and the municipality appear wholly to support the school which cot R = 9611 in 1911 2 (ir). The leper asylum at Puralia is municipal to the German Evangelical Luthern Mission costs Rs 4 840 a year and receives small government and municipal greats. The number of pupils has fallen but stull remains 141 remains 140.

In the Punjab the Railway Technical School at Lahore has a school for the blind attached to it where industrial work and reading on the Braille system are taught

The aided school for the blind in Bur a his thirteen pupils and terches reading by the Braille system as well as can and basket work. The school which passed through some vice situdes during the period has been placed in a new building and under a reorganised committee.



CHAPTER XIX REFORMATORY SCHOOLS

652 Reformatory schools are established and maintained in accordance Organisation with law (Act No VIII of 1897 by which the previous Act of 1876 was and manage repealed). The law permits Local (Governments to exhibits been institutions ment or use as reformatories schools kept by persons willing to maintain them in conformity with the rules framed in pursuance of the Act. Youthful offen ders sentenced to transportation or imprisonment may subject to rules and to the discretion of the court be sent to a reformatory for not less than three or more than even years.

653 During the past twelve years the organisation of these institutions has been materially changed. In 1899 their management was transferred from the Jail Department to the Education Department. (In Madras this change had taken place eleven years earlier). This it was recognised that they were 'schools for the education and reform of 1 oys and not jails for their punishment by long periods of incriceration. Steps have been taken to emphasise the educational aspect. Moral and religious instruction is imparted games are organised. Badges and rewards are given for good conduct and work. A monitoral system has been introduced. Great emphasis is laid on the industrial side of instruction with a view to enabling the boys to pursue some trade when their sentences have expired. And while still under sentence well conducted boys are hensed out as workmen gardeners etc. Finally in 1905 and 1906 a system of surveillance was devised through agencies other than the police over discharged boys.

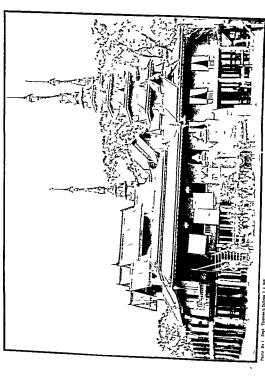
654 There are eight reformatory schools containing 1510 boys—seven Institutions maintained by government and one private school. (In general table III only seven will be found with 1294 pupils. The eighth is classed among

only seven will be found with 1294 pupils. The eighth is closed among private institutions). The annual cost of the government schools is Rs 249 167, all of which ever a small sum is borne by provincial funds Instruction in the vern-neulri and also industrial instruction are imparted. The subjects of industrial education will be noticed in detail in the next paragraph. Provinces that have no school send connected boys to a school

in a neighbouring province

655 The school at Chingleput Madras with 245 boys is an elementary combined with an industrial institution. A system of shifts has been intro duced whereby one set of boys is in class while another is in the workshops The trades taught are curpentry blacksmiths and metal work weaving triloring band playing mason's work and rattan work. Little difficulty is experienced in finding employment for boys when they leave The Bombay presidency has two schools. The government school at Yaravda has 155 boys. Behaviour is reported to be good. Of the 38 discharged in the last year 13 had been taught gardening 11 carpentry five smith s work five book binding and compositors work three printing and varnishing and one tailoring The other the only private institution of this kind under the Act is the David Sassoon Industrial and Reformatory School at Bombay It con tains 216 boys and is said to be doing useful work — During the quinquennium it was removed from an unwholesome to a satisfactory site and provided with good buildings to the improvement of the health of the inmates Bengal also had previously two reformatories one at Alipore and one at Hazaribagh In 1908 they were amalgamated at Hazaribagh The boys number 161 Building additions are said to be required Carpentry blacksmith's work misons work farming and dury keeping compositors work printing bool binding painting and polishing cane and bamboo work shee making weaving cooking washing and band playing are taught. External examiners tested 308 box in the trade handieraft and agricultural sections and 230 passed The United Provinces school is in the fort of Chunar The number of loys at the end of the period was 151 Various difficulties have been

The most satisfactory feature is the increased success of the measures of surreillance. In the previous quinquenium nearly 25 per cent of the expupils were intraced. In the period under review the proportion has been reduced to 16 7 per cent. The numbers of employed and unemployed, however, indicate no marked variation and (unless the effect is to be ascribed to increased vigilance) the large increase in the number re-convicted would appear to be unsatisfactory. The great majority of those re-convicted are from the Hazarrbagh reformatory, and beyond the fact that its numbers are large no special reason is adduced to account for this



OHAPTER XX

PRIVATE INSTITUTIONS

607 Private institutions are those which have not accepted departmental General or university standards and do not submit to any public test. Their number remarks has declined during the quinquennium from 41 192 to 39 893 while their purish lave slightly increased from 644 152 to 651 996. The figures cannot be negarification in the declined as fully reliable because the managers are under no obligation to send in leturns. The dresification is uncertain. Many of the institutions cannot be looked upon as of a perminent character. They form a stock construct replemished but even more rapidly diminished by absorption into other classes of schools. Not only are, new ones frequently opening and others closing but there is a continual movement into the pale of recognition—the private school adopts the departmental curriculum or something approaching to it the inspecting agency usit it and it gradually passes into the ranks of primary or special schools. Moteoner especially when as is sometimes the case with tols: I mate institutions receive government and the boundary becomes indistinct between those that do and those that do not conform to the definition. Several of the reports indicate this process. And a most significant fact is the enormous increase which has taken place in the number of special institutions classed as other schools. This has grown in five years from 1716 to 5998 and the purplish have increased from 44 296 to 145 746.

608 Of the classes into which these schools are divided the first is that Advanced called advanced institutions—those namely that teach Aribic and Persian institutions Sanskrit or some other classical language. Here the numbers both of schools and scholars have decreased though the falling off in pupils (from 60 792 to 55 200) is less marked than in institutions (from 5 657 to 2 634) and that in Arabic and Persian scholars more marked than in the case of those learning Sanskrit. The reasons are that the former type of scl ool more readily lends itself to absorption into other classes of institutions that the tendency among Muhammadans (as remarked by Mir. Prothero) is no longer to stand apart but to use to a greater extent than formerly the schools established for the general community and that it e use of Persian is less common than it was The originisation and curricula of these institutions are roughly those described in the chapter upon oriental studies where other information too bearing on the present subject will be found

609 In point of numbers of Arabic and Persian schools the United Pro (a) Arabic rinces take the lead (Bengal has an almost equal number of institutions but and Persian not much more than half the pupils) and, as regards the repute and crudition sclools of teachers stand far ahead It is there that the famous school of Deoband is situated (whose pupils have risen in the five years from 267 to 600) also the Imam ul Madaris the Syed ul Madaris the Nur ul Madaris and the Islamia school at Amroha In the Benares Agra and Meerut divisions the number of schools has increased But schools of Persian are steadily disappearinga fact which Mr de la Tosse deplores From this class of school came and still come but in decreasing numbers the language teachers of boards vernicular schools and though the methods of instruction they employ are often a stumbling block to young and up to date inspecting officers such men kno v their sulject well as a rule and can teach it in their own fashion with success In these naktabs Urdu is taught as well as Persian but very rarely any arithmetic. In such as I have visited I have always found the penmanship to be wonderfully neat and good and the knowledge of Persian possessed by the scholars poor though it might in some aspects be has given them a mastery over Urub which is not frequently met with in a board school. But the taste or the demand for a knowledge of Persian has declined in the countrys de and schools which once flourished have closed their doors or degenerated into nided vernacular schools of a much inferior type

numbers in Bengal are on the decline partly because madrassas and maktabs are adopting departmental standards and are passing into the category of special schools partly (as remarked above) because of the greater readiness of Muhammadans to enter the ordinary schools In Lastern Bengal and Assam the fall from the same causes is still more remarkable but has been far greater in the case of schools than of pupils In this case the division in the tables of other schools into madrassas and miscellaneous schools throws an interesting light on the subject. In addition to 120 Arabic or Persian teaching private institutions with 4943 pupils (a fall of 4162 pupils) there are 161 recognised madrassas of which 113 receive aid the expenditure on which has grown by 57 per cent and in which the pupils have increased from 10 431 to 12 923 during the period Sir A Bourne reports that there is no detailed information available regarding such schools in Madras they are comparatively few here and in Bombay and the Punjab It is natural to find that the North II est Frontier Province has relatively to its population ? considerable number of these institutions but they appear to be ill attended and the report gives no special information about them Burma and the Central Provinces where the Muhammadan population is sparse have no such schools

(b) Sanskrit schools

660 As regards Sanskrit-teaching schools again Bengal and the United Provinces are still conspicuous as ancient seats of learning The former has 392 schools with 3 911 pupils the latter 386 schools with 7 849 pupils. Ben gal with the famous institutions of Nawadwip and elsewhere has its figures obscured by the fact that, under the organising influence of the Sanskrit title examinations (see paragraph 503) the number of tols which conform to de partmental standards has increased and that many of these institutions are now classed as special schools The decline of private schools in the past five years has been remarkable-doubtless on this account Regarding the United Provinces Mr de la Fosse says Sanskrit patl shalas of the indigen ous type-not those of which the Sanskrit College Benares takes cognisance -are generally speaking rather poorly attended. They are to be found where the number of the Brahman population is sufficient to create a demand for the learning of a little Sanskrit and Hindu astrology The pupils seem to spend most of their time in casting horoscopes or divining auspicious days and times for commencing occupations. The schools may be classed as professional for the scholars are destined to earn their livelihood by presiding at or helping in the performance of those religious ceremonies which make up so large a part of the life of the orthodox Hindu villager In some a little Hindi is taught and also writing but not much attention is paid to this side of the work and it cannot be said of them as of the Persian maktabs that the knowledge acquired of the classical language makes the scholars proficient in the allied vernacular Madras affords a new instance of the attempt to organise and improve such schools The presidency appeared to be behindhand in the matter of Sanskrit education A committee was formed during the quinquennium Of the 2"0 Sanskrit schools found to be in existence it was proposed that 70 should be recognised and placed under inspection eight being classed as colleges 36 as advanced schools and 31 as elementary schools Courses of study were laid down in which history geography arithmetic and vernacular language were added to the study of Sanskrit It is proposed to give aid to all save three of the colleges and scholarships to those who read in the colleges and advanced schools Eastern Bengal and Assam has only 30 schools with 231 pupils. In Bomba, and the Punjab the numbers are small. The Central and tle North II est Frontier Provinces each boast three schools Burma has none

Schools for other classical languages Elementary institutions

 $661\,$ All the ten schools teaching other classical languages are in the Bombay presidency and are for instruction in Zend and Magadhi

662 In the next class fall elementary schools sub-divided as those teaching a remacular and those teaching the Koran — The former have increased in number from 2-108 to 26 75° and their pupils from 3-1043 to 367 034 — The latter have decreased from 10 504 to 8 288 and their pupils from 169 466 to 168 406 — Again the tendency is noticed of Muhammadans to leave special

schools and frequent the primary institutions and of the schools themselves to transform themselves into those of (more or less) the ordinary type

663 Burma is the province where vernacular teaching schools are of (a) vernacular pre eminent importance. They number 16 409 and their pupils 168 154 teaching. Even these figures must as is cogently pointed out by Mr. Covernton be in schools adequate—a fact which he attributes to an insufficient inspectorate. These are the monastic schools or pongly kyaungs which still spread a net work of indigenous education over the country. Next comes Madras with 3083 schools and 67080 pupils. The United Provinces Bombay and Bengal have a fur number of such schools. The average number of pupils is remarkibly

cation in that province Of those in the United Provinces the director says Some confine themselves to teaching reading others add also a little mental arithmetic and a few teach writing as well. They are of an ephemeral and impratory nature dependent on the capacity of the teacher to collect sufferent scholars to enable him to make a living by fees. In Oudh Anthi is sometimes taught in place of the decoranger character. The more stable schools of the class are unded by the boards. They are almost invariably renture schools and if there is a manager he exists as a nominis umbra to satisfy the requirements of the grant in aid rules. He neither contributes towards the mainten unce of the teacher nor does he concern himself with the affairs of the school. If he is sufficiently good intured or if he has any children reading in the school he may perhaps lend his chaupal as the place of meeting. In the Pinnjab there are 783 such schools the figures collected by patuars a cadmittedly unreliable. The number in Eastern Bengal and Issan is negligible but has largely increased in the quinquennium pupil, having more than doubled. The North West Frontier Province has only 41 and the Central Provinces none.

high in Bombay-probably another sign of the strong tendency towards edu

664 Koran schools are numerous in all provinces save Bengal Burma and (b) Koran the Central Provinces The description given by Mr de la Fosse may be echools taken as typical of these institutions. They are neually attached to mos

ques and are to be found where Muhammadans congregate or form a not in considerable proportion of the surrounding population. The peak nums the prayer leader is almost always the school teacher as well. The scholars commence by studying the Arabic alphabet and as soon as they can read they are made to recite suras or chapters of the Aoran. Neither writing nor arithmetic is taught. So far as my experience goes instruction is usually confined to reading and memorising but sometimes an attempt is also made to explain the meaning of what is read. This however is rare. The schools are purely theological and they could not be made to serve the purpose of secular education. Eastern Bengal and Assam has 1505 schools with 29 114 pupils within represents a fall of nearly 50 per cent and 41 per cent respectively—due the report says to the efforts made by the department to bring the schools under inspection and add some elements of practical utility to the course this leads to change in classification.

668 Before leaving the elementary institutions which form far the Value of largest class of private schools it is necessary to quote some opinions as to dementary their value. The tendency as has been repeated throughout this chapter is institutions for the indigenous school to accept departmental standards. Indicements says Sir A. Bourne have been held out to them to seek recognition and local boards and missionary societies have taken them under their management blic multi-schools of Sind and the institution of the Benjuli have been added and organised. In Burma persistent efforts have been made to conciliate the pongy, and to utilise the kyaung as a common instrument of vernacular education. There is however a school of opinion which would maintain these pinces as the piece de resistance of elementary learning as an economic cal agency for breaking down illuterury as admitting of religious instruction and as appealing strongly to the oriental mind. Much as one may mourn the passing of a nedieval and picturesque institution expert opinion warns against a doctrine which if pressed would prove obscurnatist. As has been repeatedly pointed out writes the director of Burma. The audit toach ing in private monastic schools comprises a set of 3 Rs. peculiar to Burma

Arya school at Patti, and so on in defiance of actual local needs. As they are almost always hadly housed and hadly staffed, and beguile boys from local board schools through prospects of rapid promotion, the private generosity that supports them might have been better directed to improving the existing board school than to anyuring its pupils. Such schools establish their numerical position by disregarding inter-school rules, which they then observe in order to claim recognition, and they are said to affect the discipline of board school pupils, who resort to them when they tire of their present teachers." There are some unrecognised auglo vernacular schools in Rangoon—three maintained by Muhammadans, two by Chinese; there is also the Theosophical Seciety's school. Mr Covernton rejeats his previous note of warning about the dangers and difficulties involved in the existence and multiplication of unregistered or even unknown anglo vernacular institutions, but states that, with the present inadequate staff of the department, no great expansion of work among private schools is possible

National schools.

670 Schools of the unrecognised type have sometimes been used for the spread of unwholesome political doctrines among the pupils The Samartha Vidyalaya at Talegaon near Poona was declared in 1910 to be an unlawful association under the Indian Criminal Law Amendment Act of 1903. In Bengal and Eastern Bengal and Assam a number of institutions called national schools sprang up in 1905 08 Some of them were established for the reception of pupils expelled from recognised schools for outbreaks and demonstrations connected with the anti-partition agitation, or in consequence of other action taken against disorderly institutions, or by teachers dismissed for misconduct A certain number obtained recognition and aid from the Bengal National Council of Education, a body which included the names of well-known public men in Calcutta and clsewhere. There seem to have been about cleven such schools in Bengal and forty in Lastern Bengal and Assam curriculum of the larger schools was outwardly not unlike that pursued in ordinary high schools Some kind of technical instruction was often added The history of several of these schools was marked by grave disorders. In two of them (both of which appear to have been aided by the Council) some of the teachers and boys were sentenced to imprisonment or fine for assault or obstructing government servants in the discharge of their duties National College and a certain number of these schools still appear to survive; but their political activities are not now prominent

CHAPIER XXI EDUCATION IN SPECIAL AREAS

671 It has been said that the figures dealt with in the present report ex clude native states and agency tracts save (generally speaking) those which are in relation with local Governments The agency tracts (that is small isolited portions of British territory administered by political officers) add little to the figures (with one exception) But it is necessary to add a few words about educational arrangements in Ajmer Merwara British Balu chistan Hyderabad and the Andamans

- 672 Aguer Merwara as well as the Mayo College described in the chap Agency tracts ter on the education of chiefs has a small arts college affiliated to the Univer etc sity of Allahabad up to the B 1. The total number of institutions is 222 pupils have increased during the quinquennium from 9 230 to 11 134 and expenditure from just over one lakh to Rs 1 71 227 In Baluchistan there are a high school (the Sandeman High School) and a European school total number of schools is 157 with 4 120 pupils and a direct expenditure of Education is controlled by the director of public instruction in the North West Frontier Province The civil and military station of Banga lore has already been mentioned as an important centre for the edu cation of the domiciled community Schools for Indians are also numerous and so it 9000 out of a population of 100000 are at school the aid of imperial grants there is at present a good deal of activity in building innicipal schools and a class for the training of teachers is being organised. The residency bazaars and cantonments of Hyderabad contain thritteen secondary schools for Indians of which the most important is the Mydid ub College at Secunderabad. This is exclusive of schools for Europeans. There are also 17 public and 62 private primary schools Out of a popula tion of over 130 000 nearly 6 000 children appear to be attending school of whom marly half are not in recognised schools. Inspection is performed by His Highness the Nizams director of public instruction and his staff The Indarian and Aucobar Islands have five schools including an anglo verna cular school They are attended by 152 pays of free parents and 36 of convict parents
- In 1912 the Government of India gave grants amounting to Rs 2 07 500 capital and Rs 1000 recurring for the improvement of education in agency tracts with a promise in future years of Rs 47 000 recurring

concerned

673 Education in native states which are in direct relation with the Organisation Government of India does not fall within the scope of this report These in native states n anage their own educational affairs and maintain their own staff. The States figures for most of the states which are in relation with Local Governments are included in the reports. Such are the states of Kathiawai and the feuditory and tributary states of Orissa Chota Nagpur and the Central Provinces (Figures for all the Orissa states are not available) In Kathia war states of the first and second class exercise independent control over their educational departments while the schools of minor states are managed by the agency educational officer who reports to the Agent to the Governor of Bot bay In Orissa there are advisory educational officers under the Government of Bengal and inspecting officers under and paid by the states

OHAPPER XXII

TEXT-BOOKS, LIBRARIES AND PUBLICATIONS

674 There are a few miscellaneous matters to which allusion has been Scope of the course of this review but whose fuller treatment it was convining the chapter ent to keep for a special chapter. They comprise the subject of text books of libraries and other necessary adjuncts to an educational system. The subject which might naturally figure here—that of conferences—has been omitted in this pluce since it has received sufficient treatment early in the report.

I -Text books

675 Sive in colleges and classes of high schools working for the matri. Prescription cultion the text books or a choice of books are prescribed by government or of text books the department. Ordinarily a list of recognised text books is maintained in each province and is brought up to date from year to year. Either special books are ninually selected for different standards out of this list or schools are left to make their own selections. The practice varies. For purposes of scholarship examinations some uniformity is required. But it is not essential that the same book should be prescribed in every division of a province. In Bengal and Eastern Bengal and Assum prescription by divisions has been usual in the case of vernacular schools. In Bengal each inspector is now permitted as an experimental measure to prescribe books for middle and primary scholarship examinations.

In choosing text books for the prescribed list and also in compiling suitable lists of prize and library books the local Governments seek the aid of text-books committees. In the Punjab the committee also produces books Elsewhere when the necessity of producing books arises government ordi

narily constitutes special committees
76 Evel of the larger provinces possesses one or more of these text book Text book
committees They consist of representatives of different interests Thus committees

Bengal has three committees—one at Calcutta which considers books written in English and Bengali one at Patna for books in Hindi and one at Cuttack for books in Uriva In the Central Provinces the number has been reduced to one the separate committee for Berar and the sub committees in three of the other divisions having been abolished. The work of examination of books which some of those committees have to discharge is sometimes very onerous The modus operand: is generally through circulation of books for opinion In the Bombay report a complaint of the vice principal of the Poons Training College is quoted to the effect that the work proceeds very slowly owing partly to the leisurely manner in which the members of the book committee do the opinion work and partly to the fact that only one copy of a book is available for circulation among the members In Madras the committee is divided into sub-committees and in 1909 the number of members was raised to facilitate this division. The Punjab committee (a particularly active hody) has eight sub-committees and also holds forty to fifty meetings annually In Eastern Bengal and Assam a Central Text-Book Committee was constituted in 1907 Sub committees were retained for the Assum Valley the Khası and Jaintia Hills and the Garo Hills To facilitate the despatch of business the central committee has itself been divided into sub committees for the examination of different classes of works

677 Of text books for use in colleges and English secondary schools it is Hugher text unnecessity to speak. Here works of universal acceptance are adopted and books suitable editions are produced by private firms in sufficient numbers. The universities the text book committees and local Governments discriminate and prescribe. But save in rare cases it is unnecessary for these author items to produce books for this purpose. As one of the exceptions it may be

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mentioned that the Calcutta University has produced and prescribed its own Sanskrit grammar

Elementary text books

678 With vernacular books and English or angle vernacular texts for lower classes the case is different. Not only must the current languages be used but the treatment must be such as will appeal to Indian children George Roos keppel Chief Commissioner of the North West I rontier Province complains of the unsuital ility of I nglish texts and says that he has in many eases had to listen patiently to recitations which appeared to him to be alvolutely unintelligible nonsense although they were correct according to the book "Moreover, owing to their antiquity, the text looks contain good deal of incorrect information for example a lesson on gold read in the fourth primary class dwells at a great length on Californian gold mentions Australian gold as of recent discovery and omits all mention of South Africa. Most English readers in use are not suitable for Indian schools and this is especially the case with regard to the roctry they contain. Neither lullables to infants nor poems on Luglish flowers are attractive subjects for recitation by Pathan boys of 16 years of age yet owing to their presence in the official text books and to their ensiness they are frequently selected by the teachers For obtaining suitable simple books in English and for this purpose vernacular two methods are generally pursued. In the more advanced provinces the production is sometimes left to private firms. In the less advanced (and in certain subjects in almost all provinces) books are specially written to order and the production is given to special firms. A mixture of the two is the prescription of certain definite hi es or model books along which authors and publishers work in competition. In any of these cases, the books are examined by a committee and prescribed by government tem of production by government or rather the granting of a monopoly to one or more firms for different kinds of publications is apt to be unpopular with other firms. But the monopoly sistem has undoubted advantages from the point of view of the pupil and the pupils parents -who after all are the people chiefly concerned. Under this system where the sale of a very large issue is assured to the firm the work can be thrown on the market fur more cheaply than if the production were divided among competitors each of whom might secure a certain custom among the schools but none to the extent which permits efficiency to be combined with low rates When the nort is given to Eurorean firms complaints are more But Indian firms are largely used and when this is not so it is generally because tenders have been openly invited and those submitted by Furopean firms are more facourable. In these cases consideration of the enstomers interests must weigh and such firms ordinarily produce their editions in India by Indian labour and (sometimes as a condition of the bargain) on Indian paper Indian printing and pub ishing firms however are fast improving and efforts are made to utilise them wherever possible The production of illustrations still sometimes presents a difficulty

Selection and production

679 The difficulties of the problem are increased by various causes production of cheap school literature is becoming a favourite occupation It is encouraged by the chance of a lucrative return should a single work out of many be adopted for general use. The number of books produced and examined by the text book committees is rapidly growing and throws an increasing strain upon those bodies. In 1902 the United Provinces committee had only 191 books to examine in 1911 it was called on to criticisc 741 works In Castern Bengal and Assam the central committee alone examined 1742 works during the quinquennium the Punjab committee examined 2253 It is difficult to discourage and as Mr de la Fosse says the importunity of authors who have cometimes very remarkable ideas of the literature required for school boys and the competition of publishers to get their wares approved have combined to render membership of the com mittee no sinecure The work of critically reviewing and selecting the best is difficult responsible and delicate But the trouble is intensified in the case of vernacular books by other considerations These books will be largely used by very small children and few authors are acquainted with the conditions which this fact imposes Agrin however carefully the ruther is selected his language can hardly escape severe criticism. This is due to the absence of a universally accepted literary standard. An instance in point is the fute of the Hindi and Urdu text books produced in the United Provinces of which something will be said presently. But instances also abound else where and it may safely be said that whether a committee rejects or whether it adopts the result will be a chorus of dissatisfaction. Government frequently attempts the writing of vernacular books by selected authors and committees. Some description is necessary of the production of these works and of mamals and other books not ordinarily obtainable in a satisfactory form by

other means 680 The provinces in which text books have been mainly left to private enterprise are Madras Bengal the United Provinces and Eastern Bengal and Assam But even here there are exceptions In Bengal it was found necessary to modify the existing system Private authors and firms had hitherto prepared books in accordance with the vernacular scheme of 1901 (see paragraph 285) These were found so unsatisfactory that it was con sidered better for the department to undertake the direct preparation of the text books intended to be read under the revised syllabuses. Accordingly in 1908 09 the same committee which had framed the new curriculum selected authors to prepare readers and arithmetic books for the lower vernacular classes Schools however were not limited to the books so produced for these were intended to serve as models for private authors. I wo teachers manuals—the junior and the senior—were also compiled by selected authors and edited by an inspector of schools Government also chose authors for the preparation of a science reader on natural phenomena and volumes on animal and plant life for the higher vernacular standards. These too were to serve both as texts and as models These productions were completed and all save one had been brought out in Bengali Hindi Uriya and Urdu before the end of the quinquennium The lower standard texts are now to be translated or adopted in Nepali Tibetan and the aboriginal languages of Santali Mun dari Oraon and Keri A special teachers manual for maktabs was also pub lished Readers for Muhammadan girls are also under revision by a special Muhammadan committee The production of readers for higher standards is still left entirely to private enterprise The lack of suitable texts on geography for these standards is however still regarded as a defect. In the United Pro vinces a committee was appointed which after five years labour produced in 1907 parallel readers for use in Hindi and Urdu teaching schools was at once assailed with a storm of criticism which fell especially on the simplicity both of language and of subject matter A joint committee formed to consider these matters found that while many of the criticisms were base less the books were not altogether suitable as a preparation for further literary study The question of revision however was dropped in view of the general reconsideration which the primary curriculum has recently under gone and the preparation of a new series has been entrusted to the Rural Education Committee The director is not optimistic as to the possibility of devising a common language which will not seem to favour one or other of the rival vernaculars but he hopes improvement from the fact that the lessons are not to be translations of English originals but composed in the first place in the language in which they are to be produced. The report also speaks with dissatisfaction of the readers for vernacular middle classes and attributes to their lack of literary merit the poor knowledge of language among those who have continued their vernacular studies In Eastern Bengal and Assam considerable encouragement was given to local authors through the adoption by the department of works locally produced The book trade in Dacca increased enormously At the same time a series of vernacular readers produced under the supervision of government was partially introduced the department itself published in elementary book on Benguli grammar and various school manuals and a geography were compiled under its orders. A matter of real difficulty in this province is the preparation of text books for hill tribes (see paragraph 647). Quite recently Mikir readers and an arithmetic have been prepared by the missionaries the Garo text books have been revised and a geography and a teachers manual have been written in that language

681 As regards other provinces the claborate operations of the com mittees for the production of texts in the various languages of Bombau have been described by Mr Covernton and in the last review In 1907 08 readers in the three vernaculars of the presidency were issued, in 1908 09 appeared other volumes in Marathi Gujariti Sindhi and Canarese Turther new readers and revised editions were published in 1009 to. The price of the books has been reduced The Text Book Committee of the Punjab has always engaged in the production of books and maps in cases where private enter prise is not likely to come forward. Its work during the quinquennium has been characterised by two features-a more liberal attitude to authors and publishers at the risk of the displacment of the committees own works and a widening of activity - as the result of a more favourable contract with the committees publishers. On the one hand while it is considered probable that some years must chapse before India will be in a position to compete on equal terms with the west in the production of school books in I nglish it is believed that the policy of the committee will do much to encourage local effort in this direction. On the other hand, the report states that private enterprise in the preparation of verracular texts is vet to develop

The number of text books published privately in the vernaculars and designed to meet the requirements of the Punjab corricular is still comparatively small and only a certain proportion of these are of sufficient merit to justify the committee in recommending their adoption. Want of accuracy inferiority of printing and binding excessive price and even piracy of the rights of other publishers and autiors are among the reasons for the rejection of some of the publications submitted. In these circumstances the committee has not been able to lessen its own direct responsibilities in the prepara tion and publication of vernacular books. The Text Book Revision Committee which was appointed by government in September 1905 for the purpose of improving the vernicular text books used in the province was dissolved in January 1909 having sat for two years and four months most valuable work accomplished was the preparation of a new series of renders in Urdu and Punjabi for primary schools for boxs and girls and courses of reading in Arabic and Sanskrit for the five secondary classes Nineteen of the volumes prepared have already been published and have been very favourably received. In all 40 new books have been published during the quinquennium. These include fourteen vernicular readers, four courses of reading in Hindi and Punjahi for students under training five Arabic readers two geographies two science primers Persian and Arabic grammars a Sanskrit render a text-book on Urdu composition for primary classes and manuals of kindergarten and school management in Hindi and Punjabi translations of works already published by the committee in Urdu Other works too numerous to mention were published by the same committee is interesting to find among these some vernacular translations of books on Special importance is attached to good illustrations and an arrangement has been made for the production of an Urdu edition of the Child's World in Pictures A recent departure is the subsidising of the Punjab Religious Book Society for the translation of English standard

John Halifax, Gentleman has just been published in Urdu committee have a regular contract with a Lahore publishing firm (Messrs Gulab Singh & Sons) and have recently renewed it on terms favourable to themselves receiving an enhanced royalty while the price of most works is fixed at a uniform rate of 1 000 pages per rupee. The resolution of the Local Government remarks the admirable work which this committee is doing From 1910 to 1912 a special committee in Burma sat for the purpose of com pletch revising the series of vernacular readers. The books prescribed in the Central Provinces have been found unsatisfactory and arrangements are being made for the provision of improved works

682 A few years ago the supply of a sufficient number of books was a difficulty both in towns and still more in outlying villages. The difficulty has now largely disappeared. The Calcutta School Book Society formed for the distribution of school books and appliances had received a subvention from government since 1821 It was considered that the society was no longer

Supply of

required and that it interfered with private trade. The society was dissolved by a resolution of its own members in the last year of the quinquennium. More and more, the matter is being left to local and private arrangement, and book depôts, which used to be a common feature for the supply of vernacular literature, are becoming a tining of the past. In the United Provinces they have been completely abolished, and though difficulties still sometimes arise, the market appears to be more accessible and satisfactory.

683 In recent years considerable attention has been bestowed on the pro-Drawing duction of improved drawing books. The arrangement in Bengal whereby books such books were examined by the Central Text Book Committee was found unsuccessful, and a special committee was constituted to advise on their selection and on kindred questions of art. A set of drawing books on a novel plan was also prepared at Dacca for Eastern Bengal and Assam

II -Libraries, publications, etc

634 The subject of libraries has already been treated in various chapters Libraries Of colleges it may be said that the mijority of them are too young to have acquired a steady and matured collection of books. Some of the long estab lished colleges of Bengal, such as that at Serimpore and Bishops College (with its rare collection of curious manuscripts), are exceptions to the rule. The larger government colleges, too, have respectable libraries, and considerable pains have recently been bestowed on their improvement. Colleges of these kinds not infrequently possess libraries of anything from 5,000 to 20,000 volumes. As to schools, their libraries differ greatly in value. The Enstern Bengal and Assam report says.—

"Those attached to Government schools are generally well supplied with books Most of the aided and unaided schools, however, have nothing worth the name of a library, and some of them have not even the necessary books of reference Apart from the question of funds the value of a school library as an instrument of education has not-us, yet been properly realised in these schools "Probably," observes one in spector, the teachers are responsible to a great extent for this state of things. They can do a good deal in atimulating the desire for private reading among their pupils. But it is a matter of regret that most of our teachers are not themselves well read, and, much taste for reading anything else than text-books, or those books suggested for reading by the university, will be evident among the pupils of our high schools. In middle schools the libraries consist of nothing but text books, and though last year an onderworw was made to improve this state of sfirsts by the circulation of a list of books and appliances which every such school should possess, the attempt proved a failure owing to financial difficulties.

685 The subject of public libraries and museums is not treated in the Public (Something has been said about collections of manuscripts in chap libraries and reports ter AII) Large cities occasionally possess good libraries-such as the Impe museums rial Library at Calcutta And there are 39 museums-largely but not wholly archæological In smaller towns and villages libraries are conspicuous by their absence (though in parts of Bengal the larger villages have reading rooms, and the Bombay presidency has 95 registered libraries) This lack of books is one of the reasons for the transitory influence exercised by vernacular education An interesting experiment is reported from the Central Provinces provision of small libraries of interesting information and tales written in simple language seems the first and easiest step to take and should not prove unduly expensive In the Balaghat district village libraries are maintuned from local resources. In every village school there should be a few books interesting and simple, for the use of the villagers and every effort should be made to ensure their use The combination of a library with the school should prove the first step towards the prevention of a lapse into illiteracy Museums are occasionally used for excursions Since the close of the quin quennium a scheme has been formulated for putting the Indian Museum in Calcutta to organised educational use Small museums in schools are still lare, but a training institution will not infrequently possess one. The Madras report says that, while they are becoming increasingly common, 'there is little indication of the development on the part of pupils of the habit of making systematic collections for them of natural objects, they generally

stop short at presenting to the museum any object they think curious that they happen to come acros The pursuit of hobbies so common among English school box is still rare even in schools for Europeans

Educational publications ose Among educational publications there are college magazines (already mentioned) and sometimes vernacular papers are produced for the special consumption of primary and middle schools. There are also educational magazines of a superior type for general reading. Such (among severil) are the Educational Review (Mardas) Indian Education (Bomba)) the Bengil Educational Journal and the Collegian

The Burean of Education in the Government of India has published a small series of reports partly on Indian topics partly on developments studied in other countries under the system described in paragraph 489. The series now comprises six volumes. The subjects treated are rural schools in the Central Provinces vernacular reading books in the Bombay presidency, the educational system of Japan miscellaneous matters published as the result of furlough studies the training of secondary teachers and educational buildings in India.

Encouragement of authorship 687 Government offers rewards or assistance by way of purchase of copies to meritorious authors of vernacular books or works on oriental classics. Such concessions are necessarily made only in rare and special cases and after careful enquiry. In the Punjab both Government and the text book committee contribute for this purpose and the award is made by the latter. Committee the search of the

III - I isual instruction

Sclool pictures and lanterns

688 Increased attention is now paid to the production of good pictures for schools. The problem is not an easy one since the locally made article is ant to be crude and the imported article is expensive and not always suitable for Indian consumption The delivery of an object lesson say on the Indian cow is not facilitated if the teacher has to illustrate by a daub which might equally well be a buffalo or a bison or by an elaborate representation of an Alderney cow in a rich English pasture. There is considerable scope for striking out a new line here and the Government of India brought the matter to notice in 1911 Lanterns are now used by teachers and to some extent by touring others. In 1907 the Government of India provided sets of slides to each major province. Some Local Governments have purchised a consi derable number of lanterns and slides In the Punjab a large stock of slides is kept in the Labore Museum. They are in constant circulation—largely to schools one of which received fourteen sets in a single year. This is much appreciated by schools in the province Recently an itinerant lecturer has also toured round the principal secondary schools. And in Lahore itself a course of lantern lectures many of which are delivered by specialists is annually arranged for school and college students In Eastern Benga and Assam a lantern was supplied to each inspector in 1908 In succeeding years the number both of lanterns and of slides was gradually increased the latter comprising such subjects as astronomy geography and nature study Lanterns and slides are lent to large schools that do not possess their own In two divisions inspecting officers carried lanterns on tour and delivered lectures at schools of all kinds or in central villages

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